

20020812.qrp v02_n645.qrl.20020812

Date: Mon, 12 Aug 2002 19:03:10 EDT
From: qrp-l@Lehigh.EDU
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: QRP-L digest 2645

QRP-L Digest 2645

Topics covered in this issue include:

- 1) [132120] Re: QRP - GPS redux
by David Hinerman <WD8CIV@worldnet.att.net>
- 2) [132121] WTB: S&S TAC-1 for 40M
by "N3BJ" <N3BJ@hotmail.com>
- 3) [132122] Lighthouse K6L Aug 18 and 19
by lhlousek <lhlousek@nvgbell.net>
- 4) [132123] WTB: S&S Engineering ARK-4
by "N3BJ" <N3BJ@hotmail.com>
- 5) [132124] Re: SUNDAY'S ROCK NITE
by "Tony Parks" <robert.parks11@gte.net>
- 6) [132125] Re: Very Good Main Antenna
by "Karl F. Larsen" <k5di@zianet.com>
- 7) [132126] Rock Mite
by "ss lyon" <sslyon@megalink.net>
- 8) [132127] W3C International Lighthouse Lightship Weekend August 17 & 18
by "Ron Polityka" <wb3aal@fast.net>
- 9) [132128] AA1MY & AB8DF - QRP from the Great Outdoors
by John Harper AE5X <ae5x@qsl.net>
- 10) [132129] Re: Very Good Main Antenna
by "Karl F. Larsen" <k5di@zianet.com>
- 11) [132130] Wanted Crystals for ICOM IC22
by "Mike Duke, K5XU" <k5xu@netdoor.com>
- 12) [132131] Re: Very Good Main Antenna
by "Trevor Jacobs" <kg6cyn@earthlink.net>
- 13) [132132] Slinky Antennas -- Practical Help?
by "Steve Lawrence" <Steve.Lawrence@itwfeg.com>
- 14) [132133] Re: Main Antenna : Marking the Tuner...
by "ss lyon" <sslyon@megalink.net>
- 15) [132134] ROCK MITE - AA1MY Later tonite
by "ss lyon" <sslyon@megalink.net>
- 16) [132135] Info abt ceramic filter??
by "Francisco Hernandez Alonso" <co2ha@jcce.org.cu>
- 17) [132136] NoGaGuppy: Help me mate TT2 with MRX-40
by N0BN@aol.com
- 18) [132137] N)RC takes to the air with his Rock-Mite
by "Rod N0RC" <rod@n0rc.us>
- 19) [132138] Rock-Mite Enclosure

- by "Stephen H. Ponder" <n5wbishp@blkbox.com>
- 20) [132139] Re: Very Good Main Antenna
by Bruce Muscolino <w6toy@erols.com>
- 21) [132140] palm pilots
by Bruce Rattray <rattray@gpfn.sk.ca>
- 22) [132141] AA1MY
by Bruce Rattray <rattray@gpfn.sk.ca>
- 23) [132142] Re: [AA1MY]
by "P.Ermisch" <ermisch@usa.net>
- 24) [132143] Re: Rock Mite AA1MY
by "ss lyon" <sslyon@megalink.net>
- 25) [132144] Re: Clisby Vertical Milling Machine and Lathes
by <igeq100@iupui.edu>
- 26) [132145] KI6DS Rock Mite Makes First QSO with K0EVZ
by "Doug Hendricks" <ki6ds@dospalos.org>
- 27) [132146] Rock-Mite almost ready to sear the ether!
by "Dennis Ponsness" <wb0wao@hotmail.com>
- 28) [132147] Re: palm pilots
by Goran Hosinsky <hosinsky@jet.es>
- 29) [132148] So You Want to be a Builder, Huh? Part 3
by "Doug Hendricks" <ki6ds@dospalos.org>
- 30) [132149] 88 foot dipole >?<
by John R Kirby <n3aaz-qrp@juno.com>
- 31) [132150] Re: 88 foot dipole >?<
by Chuck Carpenter <w5usj@9plus.net>
- 32) [132151] Re: Very Good Main Antenna
by =?iso-8859-1?Q?bam_yb=D8ko/1_SOETRISNO?= <unclebam@indosat.net.id>
- 33) [132152] Re: Very Good Main Antenna
by "Karl F. Larsen" <k5di@zianet.com>
- 34) [132153] Re: palm pilots
by "Leon Heller" <leon_heller@hotmail.com>
- 35) [132154] Re: Info abt ceramic filter??
by "Leon Heller" <leon_heller@hotmail.com>
- 36) [132155] Rock Mite... ordered
by "Jason Hissong" <jhisson1@columbus.rr.com>
- 37) [132156] Re: NoGaGuppy: Help me mate TT2 with MRX-40
by "Michael C. Boatright" <ko4wx@mindspring.com>
- 38) [132157] FS Call Book CDR
by "Vincent A. Santis" <vsantis@earthlink.net>
- 39) [132158] UC3909N
by "William K. Harding" <k4ahk@ix.netcom.com>
- 40) [132159] palm pilots and loggers
by Tom Mc <tjmc@erols.com>
- 41) [132160] Re: Got My Rock-Mite!!!!
by Mark Brueggemann <markb@abq.com>
- 42) [132161] Re: Smith Chart for Dummy's : punctuation for dummies
by Lloyd Lachow <llachow@yahoo.com>
- 43) [132162] Norcal 20 whoop

by "gergea" <w4gfa@bellsouth.net>
44) [132163] Re: QRP - GPS redux
by "Chad Nelson" <galahad@boisecenter.net>
45) [132164] RE: Norcal 20 whoop
by "Alverson, Tom" <TomA@xetron.com>
46) [132165] Rock-Mite Rockin'!!!!
by wb0wao@hotmail.com (Dennis Ponsness)
47) [132166] Re: Got My Rock-Mite!!!!
by "Rod N0RC" <rod@n0rc.us>
48) [132167] Re: Slinky Antennas -- Practical Help?
by David Gauding <david.gauding@bbs.galilei.com>
49) [132168] Globe Patrol Receiver
by James Douglas <james.douglas@sympatico.ca>
50) [132169] the "Rock-Mite" file UPDATED
by "Rod N0RC" <rod@n0rc.us>
51) [132170] Rock Mite and SMT components
by "Tom Dufresne" <tdufres@hotmail.com>
52) [132171] Re: QRP - GPS redux
by Bruce Grubbs <mail@brucegrubbs.com>
53) [132172] Crystals
by "Glenn Maclean" <wa7spy@attbi.com>
54) [132173] PSK31 software with high res waterfall
by Alex <kr1st@amsat.org>
55) [132174] Re: [Rock Mite and SMT components]
by "P.Ermisch" <ermisch@usa.net>
56) [132175] Re: Slinky Antennas -- Practical Help? (more)
by David Gauding <david.gauding@bbs.galilei.com>
57) [132176] Re: Rock Mite and SMT components
by "Mark J. Dulcey" <mark@buttery.org>
58) [132177] Re: UC3909N
by W2EB <w2eb@twcnny.rr.com>
59) [132178] Re: Rock Mite and SMT components
by Ingo Meyer DK3RED <dk3red@gmx.net>
60) [132179] Another Calif Rock-Mite
by dave f epps <dave_epps@juno.com>
61) [132180] Thanks RE:Rock Mite and SMT components
by "Tom Dufresne" <tdufres@hotmail.com>
62) [132181] Ten Tec 208 CW filter NOT the 208A pinouts
by Marv Fagenson <k6hcj@juno.com>
63) [132182] Re: AA1MY & AB8DF - QRP from the Great Outdoors
by kwiike@gdls.com
64) [132183] Re: Rock Mite and SMT components
by "Jim Pruitt" <wa7duy@charter.net>
65) [132184] Re: Rock Mite and SMT components
by "Dave Benson" <nn1g@earthlink.net>
66) [132185] Re: PSK31 software with high res waterfall
by "George, W5YR" <w5yr@att.net>
67) [132186] QRM

by "Hubert Smits" <hubert.smits@btinternet.com>

68) [132187] PSK31 software & CW (was: PSK31 software with high res waterfall)
by Steve Smith <sigcom@juno.com>

69) [132188] First VX0 Kits Mailed
by "Doug Hendricks" <ki6ds@dph.dpol.net>

70) [132189] Re: Crystals
by "Karl F. Larsen" <k5di@zianet.com>

71) [132190] Re: QRP - GPS redux
by don@azark.com

72) [132191] OT VE license Information
by "Karl F. Larsen" <k5di@zianet.com>

73) [132192] Re: QRP - GPS redux
by "Steve Lawrence" <Steve.Lawrence@itwfeg.com>

74) [132193] Re: QRP - GPS redux
by David Hinerman <WD8CIV@worldnet.att.net>

75) [132194] Re: QRM
by Steven Weber <kd1jv@moose.ncia.net>

76) [132195] Re: QRP - GPS redux
by "Steve Lawrence" <Steve.Lawrence@itwfeg.com>

77) [132196] LED Lights for QRP field ops
by kwike@gdls.com

78) [132197] CDR sold
by "Vincent A. Santis" <vsantis@earthlink.net>

79) [132198] Re: PSK31 software & CW (was: PSK31 software with high res waterfall)
by "George, W5YR" <w5yr@att.net>

80) [132199] Re: OT VE license Information
by "Mike Yetsko" <myetsko@insydesw.com>

81) [132200] Re: LED Lights for QRP field ops
by Chris Cartwright <ccart@phideaux.com>

82) [132201] Paddle covers for Mercury/Hensley:
by "J. W. (Dub) Thornton" <dub@oklahoma.net>

83) [132202] RE: LED Lights for QRP field ops
by "John K7TY" <k7ty@arrl.net>

84) [132203] Re: LED Lights for QRP field ops
by "Mike Yetsko" <myetsko@insydesw.com>

85) [132204] AT in PA Tuesday
by "Ron Polityka" <wb3aal@fast.net>

86) [132205] Walmart LED Lights
by "Doug Hendricks" <ki6ds@dph.dpol.net>

87) [132206] Re: LED Lights for QRP field ops
by "Tim, N9PUZ" <n9puz@arrl.net>

88) [132207] Re: LED Lights for QRP field ops
by "Jason Nochlin" <jman0iin@attbi.com>

89) [132208] Re: LED Lights for QRP field ops
by Rick McKee <kc8aon@juno.com>

90) [132209] Re: LED Lights for QRP field ops - converting a MagLite
by Jim Larsen - AL7FS <AL7FS@arrl.net>

- 91) [132210] motorboating
by <wa4chq@qsl.net>
- 92) [132211] OT Spot 5X5 CW on 7519
by John R Kirby <n3aaz-qrp@juno.com>
- 93) [132212] Re: LED Lights for QRP field ops
by Rick McKee <kc8aon@juno.com>
- 94) [132213] Re: LED Lights for QRP field ops
by Ed Tanton <n4xy@earthlink.net>

Date: Sun, 11 Aug 2002 19:02:25 -0400
From: David Hinerman <WD8CIV@worldnet.att.net>
To: qrp-l@lehigh.edu
Subject: [132120] Re: QRP - GPS redux
Message-ID: <5.1.0.14.1.20020811184145.00b1e038@postoffice.worldnet.att.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

> > but without basic navigation skills a GPS receiver isn't much use.
>
>I don't believe this for one minute. Sure, with just a GPS you need a fair
>bit of common sense. But with a laptop or Palm connected GPS, and as Tony
>says, the right maps loaded, it would take a total idiot to get lost. It
>only takes a few feet for the GPS to tell you which way you are going, and
>if know you're headed east, it doesn't take a rocket scientist to know which
>way is north.
>
>Of course, I suppose there are people who can't read maps, so maybe that
>counts as basic navigation skills.

Determining a direction was what I meant by basic navigaton skills. If the
lost party had remembered to mark the coordinates of their starting point,
the GPS could have old them how to get back even without a map. (Although a
map would have been a REALLY big help to locate easier terrain, rivers,
etc.) But even knowing that one must go south, one still has to find which
way south is.

I agree that pacing off a baseline and seeing which way it's pointing is an
adequate substitute for a compass - but you have to know how to do it, or
that you -can- do it. If you know that, you probably know enough to take a
compass to begin with.

> Maybe I'm a little intolerant of the terminally stupid.

On the one hand I agree with you. But on the other hand manufacturers of
"high-tech" gear like cell phones and GPS receivers are really good at

glossing over the users' responsibility and limitations of the equipment in order to sell it. (That's why it's illegal to sell receivers than can tune cellular frequencies in the U.S. The cellular operators wanted their users to believe their calls were as secure as on a wireline phone, so they lobbied Congress to pass a law making it illegal to eavesdrop on them. But it's still possible to listen in if you have the right test equipment - or even an old TV.)

>A few years ago my daughter wanted to go to an amusement park a few hundred
>miles away with her boyfriend. He couldn't imagine how they could get there
>since they hadn't been there before and didn't know the way. She told him
>it wasn't a big problem, they had maps, but he couldn't picture how a piece
>of paper was going to help the get somewhere they hadn't been before. Well,
>they got there and had a good time, and thankfully, she dumped the idiot.

Score one for our side. (My 18-year-old daughter hs brought home some real winners in her time.)

>For shorter trips I
>generally just print the maps but if I'm going to be away a while I take the
>GPS and laptop because I never know when the urge for pizza will strike.

If you have a cell phone connected will it dial the phone for you? (Grin)

>You can also
>map out your course and see the profile, which would be great for hiking,
>tho I would do it ahead of time since the thing is pretty CPU hungry and I
>wouldn't want to lug the laptop.

One of the hazards of having portable equipment is that you want to take it with you. (Grin) But for hiking, I'd stick with paper. (NOT printed on an inkjet printer, though - the ink runs if t gets wet.)

Dave

"You can fool some of the people all of the time. That's enough to make a living." - Lance Burton

Dave Hinerman
WD8CIV@att.net

Date: Sun, 11 Aug 2002 19:24:06 -0400
From: "N3BJ" <N3BJ@hotmail.com>
To: "Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>

Subject: [132121] WTB: S&S TAC-1 for 40M
Message-ID: <0E29rJ7ZzBCsJge31ZK0000cca0@hotmail.com>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Looking for an S&S Engineering TAC-1 for 40M.

Please let me know if you have one that is surplus to your needs.

Alan, N3BJ
Bent Mountain, VA

Date: Sun, 11 Aug 2002 16:51:07 -0700
From: hlhousek <hlhousek@nvbell.net>
To: elecraft list <elecraft@mailman.qth.net>,
QRP-L list <qrp-l@lehigh.edu>
Cc: Steve Rogers W7VI <sdr@saturnnet.com>, Paul Cavnar <nn7b@gbis.com>,
"Frank Nance, W6MN" <frank@w6mn.reno.nv.us>,
Subject: [132122] Lighthouse K6L Aug 18 and 19
Message-ID: <01cb01c24191\$f83ff680\$6401a8c0@nvbell.net>
MIME-version: 1.0
Content-type: text/plain; charset=iso-8859-1
Content-transfer-encoding: 7BIT

Steve Lybarger NU7T, Ed Dybowski WD7Y, and me, Lou Hlousek W7DZN, all of the Reno QRP Club, will be activating the Sugar Pine Point lighthouse on Lake Tahoe for the Aug 17 and 18 International Lighthouse and Lightship Weekend. The world's highest active lighthouse is in Sugar Pine Point State Park about half way down the west shore of Lake Tahoe, CA. The scenery is beautiful but the lighthouse might not be quite what you'd expect. It's nothing more than a strobe atop a 20' pole. Still, it is listed as lighthouse USA-916 by the lighthouse association and we will activate it. The lighthouse is about a 3/4 mile hike from the nearest road so we will be packing in our gear.

Our special event call is K6L and ops will start around 5:00 PM PDT Friday. We will QRT for the night and continue Saturday until 5:00PM PDT on or around the following frequencies as band condx permit:

40m: 7.005 - 7.035 (7.021)

20m: 14.010 - 14.040 (14.021)
15m: 21.010 - 21.040 (21.021)
10m: 28.010 - 28.040 (28.021)

These are the official frequencies listed for the event. Where appropriate, we will try to operate at the upper ends of the ranges so as to be out of the Extra segments. Depending on the level of activity we may be operating split.

Rigs will include two K2s, a K1, an SST, and an IC706 feeding an MP-1, inverted V, and end-fed long wire antennas.
More info on the event can be found at: <http://arlhs.com/page3d.html>

This is not a contest. Give us a call if you hear us. Slow CW is welcome!

Lou W7dzn

Date: Sun, 11 Aug 2002 20:01:17 -0400
From: "N3BJ" <N3BJ@hotmail.com>
To: "Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>
Subject: [132123] WTB: S&S Engineering ARK-4
Message-ID: <OE21hcgUHHLAKowuxQR0000cac3@hotmail.com>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Looking for an S&S Engineering ARK-4 transceiver. Please let me know if you have one that is surplus to your needs.

Alan, N3BJ
Bent Mountain, VA

Date: Sun, 11 Aug 2002 20:10:33 -0500
From: "Tony Parks" <robert.parks11@gte.net>
To: "Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>

Subject: [132124] Re: SUNDAY'S ROCK NITE
Message-ID: <000e01c2419d\$114fab60\$2e48e943@3dse0>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Another Rock Mite is up and running as of a few minutes ago thus proving there is more than corn in Indiana. I will be looking for my first RM two way contact at 9:00 PM Eastern.

72,
Tony
KB9YIG

----- Original Message -----
From: "ss lyon" <sslyon@megalink.net>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Sent: Saturday, August 10, 2002 6:44 PM
Subject: Re: SUNDAY'S ROCK NITE

> OK by me... I'll start calling CQ RM at 9:00pm Eastern. That should be
> good for
> the rest of the continent as we roll with ol' Sol.
> Sound ok to y'all?
> 72
> "Seab" Lyon - AA1MY
> Bethel, ME 04217 USA
> N 44.3890 - W 70.8450
> FN44nj aa1my@arrl.net
>
>

Date: Sun, 11 Aug 2002 19:14:28 -0600 (MDT)
From: "Karl F. Larsen" <k5di@zianet.com>
To: Fred Bonavita <k5qlf@yahoo.com>
Cc: Low Power Amateur Radio Discussion <qrp-1@lehigh.edu>
Subject: [132125] Re: Very Good Main Antenna
Message-ID: <Pine.LNX.4.44.0208111901110.3964-1000000@Daisy.dog>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Hi Fred, I have no idea who first used a wire 88 feet long as a center fed zepp antenna. I am not sure who the first person was that learned that by use of Conjugate Matching with a quite common tuner like the Z-match or the MFJ line you get nearly all the incident power to the antenna.

Today my 88 foot dipole works far better than the 136 foot dipole I used prior to that. I have learned why power reflected by the antenna is re-reflected back to the antenna again, and again.

I have the 1956 Radio Handbook which is falling apart but in it they cover the use of wire antenna's that are anti-resonant on the Ham Bands so the feed point impedance will be better if the antenna is used on many bands. By accident it happens that 88 feet is a special length on 20 meters.

I don't have any of Charles Lofgren, W6JJZ writings and it appears I'm going to have to find them.

People who read this list and need a good antenna will not go wrong with what I wrote earlier today.

On Sun, 11 Aug 2002, Fred Bonavita wrote:

>
> For another, earlier perspective on the qualities of the
> 88-foot doublet, see "The Suburban Multibander," by Charles
> Lofgren, W6JJZ, in the ARRL Antenna Compendium, Vol. 2
> (1989), at page 103. Charlie, who is the godfather of
> Z-match tuners, offers an enlightened look at the history
> and design of this simple and dependable antenna for those
> who do not have room for an antenna farm. I have used it
> successfully since this article first appeared. The only
> modification I made was to skip the choke balun and bring
> the 450-ohm twinlead directly to the terminals on my
> W6JJZ-design Z-match. It plays beautifully.
> ~73, Fred, K5QLF, San Antonio..

>
>
> -----
> Do You Yahoo!?
> HotJobs - Search Thousands of New Jobs
> <http://www.hotjobs.com>
>

--
Yours Truly,

- Karl F. Larsen, (505) 524-3303 -

Date: Sun, 11 Aug 2002 21:19:19 -0400
From: "ss lyon" <sslyon@megalink.net>
To: "chat qrp" <qrp-l@lehigh.edu>
Subject: [132126] Rock Mite
Message-ID: <000701c2419e\$48cc9340\$aac7e742@megalink.net>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hello all,
Seab asked me to let you know he is "signing on" late..we just got home from a movie (sorry about that, it was so hot here, we escaped for a bit). So, for AA1MY, 72,
Sharon
Seabury & Sharon Lyon
99 Sparrowhawk Mtn Rd
Bethel ME, 04217 U.S.A.
207-836-2576

Virus Protection by Norton and ZoneAlarm

Date: Sun, 11 Aug 2002 21:27:42 -0400
From: "Ron Polityka" <wb3aal@fast.net>
To: ". QRP-L" <qrp-l@lehigh.edu>, ". NJ QRP-L" <njqrp@njqrp.org>
Subject: [132127] W3C International Lighthouse Lightship Weekend August 17 & 18
Message-ID: <00eb01c2419f\$75906cc0\$33605cd1@wb3aal>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hello,

This weekend, August 17 & 18, is the International Lighthouse and Lightship Weekend. Look for a group of EPA QRP Club members operating W3C from the Chesapeake Lightship in Baltimore, MD. This will be a QRO operation.

Check out the Special Event section on the www.n3epa.org web site for more information.

72

Ron de WB3AAL
www.n3epa.org/
ARLHS #423

Date: Sun, 11 Aug 2002 21:35:00 -0400
From: John Harper AE5X <ae5x@qsl.net>
To: qrp-l@lehigh.edu
Subject: [132128] AA1MY & AB8DF - QRP from the Great Outdoors
Message-ID: <003d01c241a0\$7960b930\$6401a8c0@Home>
MIME-version: 1.0
Content-type: text/plain; charset=iso-8859-1
Content-transfer-encoding: 7BIT

I worked Seab and listened to him work all those calling him with his Rock Mite "unboxed and spread all over the camping table" at his outdoor location in Maine. Then worked AB8DF who was operating from his campsite in the Michigan woods with an SW-40. Here's a wav file of how they sounded on my K1 (scroll to bottom of page):
<http://www.ae5x.com/qrp.html>

John Harper AE5X
Outdoor QRP: <http://www.ae5x.com>

Date: Sun, 11 Aug 2002 19:38:54 -0600 (MDT)
From: "Karl F. Larsen" <k5di@zianet.com>
To: Dave Sjolin <sjolin@swbell.net>
Cc: qrp-l@lehigh.edu
Subject: [132129] Re: Very Good Main Antenna
Message-ID: <Pine.LNX.4.44.0208111934580.4032-100000@Daisy.dog>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

You are correct Dave, LB Cebick orients his antenna different than I do (have no idea why I do mine 90 degrees off from him) but I brought up his web page and saw my error. So the 20 meter peak in the pattern is in the same direction as the peaks on 40 and 80 meters

On Sun, 11 Aug 2002, Dave Sjolín wrote:

> Hi Karl, I think you mispoke on the Double Extended Zepp. Gain would be in
> the directions perpendicular to the wire, not off the ends, at least on 20
> meters. Perhaps by the time you get to ten meters, you may see some
> radiation off the ends as the pattern gets more complex, but not at the
> design frequency. At least that's the way I understand it.

>

> 73 de Dave, N0IT

>

> ----- Original Message -----

> From: "Karl F. Larsen" <k5di@zianet.com>

> To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>

> Sent: Sunday, August 11, 2002 3:30 PM

> Subject: Re: Very Good Main Antenna

>

>

> > Hi Chris, there is NOTHING real magic about 88 feet except that
> > 88 feet is the length for a Double Extended Zepp on 20 meters and it
> > gives some gain off each end of your antenna. Also, it seems to keep
> > other bands radiation pattern pretty circular so you don't have many
> > holes in the pattern.

>

>

>

>

--

Yours Truly,

- Karl F. Larsen, (505) 524-3303 -

Date: Sun, 11 Aug 2002 20:55:18 -0500

From: "Mike Duke, K5XU" <k5xu@netdoor.com>

To: "qrp list" <qrp-1@lehigh.edu>

Subject: [132130] Wanted Crystals for ICOM IC22

Message-ID: <00ac01c241a3\$be997d40\$c8d294d0@k5xu>

MIME-Version: 1.0

Content-Type: text/plain;

charset="iso-8859-1"

Content-Transfer-Encoding: 7bit

If you have spare crystals from a dead IC22, please let me know. I'm especially looking for a pair for 146.04/64.

Mike Duke, K5XU
American Council of Blind Radio Amateurs

Date: Sun, 11 Aug 2002 19:17:20 -0700
From: "Trevor Jacobs" <kg6cyn@earthlink.net>
To: <k5di@zianet.com>,
"Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>
Subject: [132131] Re: Very Good Main Antenna
Message-ID: <005b01c241a6\$6433fb20\$6493b2d1@tjacobs>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Karl and all,

One thing that I've always been told and it seems to be a good rule with the Center Fed Zep, is to get as much wire in the air as possible. Now, I know that you have to be careful about feeding the feedline end at a voltage node at the tuner, but I've always been able to either add or subtract a bit of feedline to take care of this. Just avoid the 1/4 wave lengths of feedline of the bands that you want to use the antenna for and it should work fine. The Center Fed Zep is my personal favorite for limited space, and works very well.

73's Trev KG6CYN
<http://home.earthlink.net/~kg6cyn>
<http://www.qsl.net/kg6cyn>

----- Original Message -----
From: Karl F. Larsen <k5di@zianet.com>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Sent: Sunday, August 11, 2002 6:38 PM
Subject: Re: Very Good Main Antenna

>
> You are correct Dave, LB Cebick orients his antenna different
> than I do (have no idea why I do mine 90 degrees off from him) but I
> brought up his web page and saw my error. So the 20 meter peak in the
> pattern is in the same direction as the peaks on 40 and 80 meters
>

>
> On Sun, 11 Aug 2002, Dave Sjolín wrote:
>
> > Hi Karl, I think you mispoke on the Double Extended Zepp. Gain would
be in
> > the directions perpendicular to the wire, not off the ends, at least
on 20
> > meters. Perhaps by the time you get to ten meters, you may see some
> > radiation off the ends as the pattern gets more complex, but not at
the
> > design frequency. At least that's the way I understand it.
> >
> > 73 de Dave, N0IT
> >
> > ----- Original Message -----
> > From: "Karl F. Larsen" <k5di@zianet.com>
> > To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
> > Sent: Sunday, August 11, 2002 3:30 PM
> > Subject: Re: Very Good Main Antenna
> >
> >
> > > Hi Chris, there is NOTHING real magic about 88 feet except that
> > > 88 feet is the length for a Double Extended Zepp on 20 meters and
it
> > > gives some gain off each end of your antenna. Also, it seems to
keep
> > > other bands radiation pattern pretty circular so you don't have
many
> > > holes in the pattern.
> >
> >
> >
> >
> >
> >
> --
> Yours Truly,
>
> - Karl F. Larsen, (505) 524-3303 -
>

Date: Sun, 11 Aug 2002 22:20:43 -0400
From: "Steve Lawrence" <Steve.Lawrence@itwfeg.com>
To: qrp-1@lehigh.edu
Subject: [132132] Slinky Antennas -- Practical Help?
Message-ID: <0F71B49810.AB0A13B3-0N85256C13.000BA888-85256C13.000CD657@itwfeg.com>

MIME-Version: 1.0

Content-Type: text/plain; charset="us-ascii"

For those who've experimented with Slinky based antennas, I have a couple of questions...

- 1.) Can you solder a feedline to the steel Slinky? If so, how? What kind of solder? Flux?
- 2.) Has anyone tried a delta or gamma match type couple to a feedline (say 300 ohm twinlead or 450 ohm window line)? I'm talking about a match where the feedline is connected across a number of turns of the Slinky coil, on either side of center, no center insulator... What were the results?
- 3.) In a "typical" configuration (whatever that is) are wire "tails" needed at the ends of the slinky when making a dipole for, say 40M and up?

I realize that unlike some other antenna configurations, the Slinky is unique in that it's characteristics can be dynamically changed on the fly. But, before I start messing, I thought I'd ask the pool of experience!

TIA,
Steve
aa8af

Date: Sun, 11 Aug 2002 22:37:37 -0400
From: "ss lyon" <sslyon@megalink.net>
To: <jamesd1@flash.net>,
"Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [132133] Re: Main Antenna : Marking the Tuner...
Message-ID: <005901c241a9\$39280e00\$aac7e742@megalink.net>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

You should see my Z-match; built in a 4-gang plastic wall box, featuring full size 365pf variables and the 2" yellow core per Mr Lofgren. I change antennas, orientation and elevation so often that I gave up on permanent marks and just keep adding masking tape and mark the spots. Gets thick some times and have to peel it off and start again. I'll post a picture with NØRC of my station of the last three nites with the Rock Mite (UNPACKAGED) in my tent up the hill.

BTW, the 88' and 44' are also good lengths that avoid those tough to tune hi Z

points you find on resonant wire.

72

"Seab" Lyon - AA1MY
Bethel, ME 04217 USA
N 44.3890 - W 70.8450
FN44nj aa1my@arrl.net

Date: Sun, 11 Aug 2002 22:45:59 -0400
From: "ss lyon" <sslyon@megalink.net>
To: "chat qrp" <qrp-l@lehigh.edu>
Subject: [132134] ROCK MITE - AA1MY Later tonite
Message-ID: <007f01c241aa\$6449d040\$aac7e742@megalink.net>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

I have to compliment you guys for your patience, persistence and EARS! For example, WOPW and I worked tonite at 10:09 Eastern, me @ 400mW, he at 1W... thru very hi QRN/QRM/QSB and some SW BC to boot. absolutely amazing. I'm taking a break at the moment but will look in at 11, and 12 Eastern tonite just in case the band goes long -and hopefully quiet. Still using the folded dipole, will change back to the Eighty Eight tomorrow, or maybe the Half Square.

72

"Seab" Lyon - AA1MY
Bethel, ME 04217 USA
N 44.3890 - W 70.8450
FN44nj aa1my@arrl.net

Date: Sun, 11 Aug 2002 23:08:45 -0400
From: "Francisco Hernandez Alonso" <co2ha@jcce.org.cu>
To: "_QRP-L" <qrp-l@lehigh.edu>
Subject: [132135] Info abt ceramic filter??
Message-ID: <E17e5Zv-000KbC-00@tinored.jcce.org.cu>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 8bit

Hi OM s!!!

I need technical information about ceramic filter Murata
CFN 455 E
Thanks in advance!!!

72/73 es DX
Frank C02HA, Internet QRP-L#1486, EL83td
co2ha@jcce.org.cu <http://frc.co.cu>

Date: Sun, 11 Aug 2002 23:14:08 EDT
From: N0BN@aol.com
To: qrp-l@lehigh.edu
Subject: [132136] NoGaGuppy: Help me mate TT2 with MRX-40
Message-ID: <139.12a7b05a.2a888200@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit

Actually I don't want help per se! I want someone to tell me exactly what to do.

Many months ago I tried to insert a T/R circuit/switch between my TT2 and MRX-40, and I failed. When I saw the NoGaGuppy, I was excited by the possibility of actually achieving my goal. Then I realized I could build the kit exactly to spec but still not know or be able to figure out how to wire the three circuits together.

I haven't touched the soldering iron or played with circuits for well over a year, and I wasn't electronically savvy then! Can someone tell me exactly how to do this? I will be happy to send you the schematics for the TT2 and MRX if you don't have them handy.

Thanks. This might be what I need to get rolling again and dig into my other unbuilt kits! (I haven't bought a NoGaGuppy yet.)

72,

Daniel n0bn

Date: Sun, 11 Aug 2002 21:13:29 -0600
From: "Rod N0RC" <rod@n0rc.us>
To: "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [132137] N)RC takes to the air with his Rock-Mite

Message-ID: <014101c241ae\$3c1f62c0\$6501a8c0@greyrock>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

9:10p MDT/0310z

Going to be ruff, QRM/QRN, A index it up to 12.

73, Rod N0RC

Date: Sun, 11 Aug 2002 22:29:24 -0500
From: "Stephen H. Ponder" <n5wbishp@blkbox.com>
To: <qrp-1@lehigh.edu>
Subject: [132138] Rock-Mite Enclosure
Message-ID: <LPBBKJMEKKHOELGKJPBGMEHJCJAA.n5wbishp@blkbox.com>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Could somebody please direct me to the
web site where I can order an enclosure
for my Rock-Mite?

Thanks!

73,

Steve Ponder, N5WBI

Date: Mon, 12 Aug 2002 00:17:52 -0400
From: Bruce Muscolino <w6toy@erols.com>
To: k2jq@rcn.com
Cc: Low Power Amateur Radio Discussion <qrp-1@lehigh.edu>
Subject: [132139] Re: Very Good Main Antenna
Message-ID: <3D5736F0.D1E849FE@erols.com>

MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Ain't it strange that I have been recommending the very same thing,
except I write the settings in the log, for about 10 years now!

73

>
> > With the manual tuner take an hour and find the setting that
> > gives a 1:1 SWR to your radio on every frequency you use
> > like 7.040 and 14.06 and like that. Now type up the settings
> > and print them out and tape the settings on the tuner.
>
> That is a very time-saving suggestion which I have found worth
> its weight in GOLD !
>

Date: Sun, 11 Aug 2002 22:20:32 -0600 (CST)
From: Bruce Rattray <rattray@gpfn.sk.ca>
To: QRP-Canada <qrp-canada@neale.gpfn.sk.ca>,
Low Power Group <qrp-l@lehigh.edu>
Subject: [132140] palm pilots
Message-ID: <Pine.LNX.4.33.0208112217210.16186-100000@neale.gpfn.sk.ca>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

I'm interested in finding out about palm pilots to use for logging
purposes...who's using what?, programs?, capacity?. the used market
for palms, etc...thank you...oh, and the "accordion" keyboard...

..72/73 - Bruce (VE5RC+VE5QRP) QRP-C#1 QRP-L#886 ARCI#9683 Zombie#272
A-1 Operator Club - 10/10# 944 - QRP Borg#1 - Whiner#10 -
- VE5QRP SOC#11 - VE5RC SOC#12 - oo#148 - K2#2032 - COG#15 -
"QRP! How sweet it is!" "I am da man wit "DAH" paddle!"

Date: Sun, 11 Aug 2002 22:32:33 -0600 (CST)
From: Bruce Rattray <rattray@gpfn.sk.ca>
To: Low Power Group <qrp-l@lehigh.edu>,

QRP-Canada <qrp-canada@neale.gpfn.sk.ca>
Subject: [132141] AA1MY
Message-ID: <Pine.LNX.4.33.0208112231090.17187-100000@neale.gpfn.sk.ca>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Just heard Seab calling CQ, on 7.039 at 0441Z and he might have heard me
at 0442Z, he was RST 119 here....hope he gets stronger....

..72/73 - Bruce (VE5RC+VE5QRP) QRP-C#1 QRP-L#886 ARCI#9683 Zombie#272
A-1 Operator Club - 10/10# 944 - QRP Borg#1 - Whiner#10 -
- VE5QRP SOC#11 - VE5RC SOC#12 - oo#148 - K2#2032 - COG#15 -
"QRP! How sweet it is!" "I am da man wit "DAH" paddle!"

Date: Sun, 11 Aug 2002 22:58:57 -0600
From: "P.Ermisch" <ermisch@usa.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [132142] Re: [AA1MY]
Message-ID: <20020812045858.3828.qmail@uadvg137.cms.usa.net>
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable

He was 229 at about 0420 here in Colorado. Tried calling him with my RM =
but
my low dipole probably doesn't cut it.

Paul KB0LUR

Bruce Rattray <rattray@gpfn.sk.ca> wrote:

> =

> Just heard Seab calling CQ, on 7.039 at 0441Z and he might have heard m=
e
> at 0442Z, he was RST 119 here....hope he gets stronger....
> =

> .72/73 - Bruce (VE5RC+VE5QRP) QRP-C#1 QRP-L#886 ARCI#9683 Zombie#272=
>
> A-1 Operator Club - 10/10# 944 - QRP Borg#1 - Whiner#10 -
> - VE5QRP SOC#11 - VE5RC SOC#12 - oo#148 - K2#2032 - COG#15 =
> -
> "QRP! How sweet it is!" "I am da man wit "DAH" paddle!="

"
> =

> =

Date: Mon, 12 Aug 2002 01:02:40 -0400
From: "ss lyon" <sslyon@megalink.net>
To: <rattray@gpfn.sk.ca>,
 "Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>
Subject: [132143] Re: Rock Mite AA1MY
Message-ID: <00ce01c241bd\$7c7baea0\$aac7e742@megalink.net>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Bruce, I DID hear you but couldn't believe it and was trying to hear NØRC thru the noise!!! Sure couldn't claim a QSO, so we'll keep trying. I'll put the 88' EDZ back up tomorrow and keep operating directly under as long as wx permits. Using a 7 AH gel cell for past three nites and it still shows full charge. Best DX tonite was AK7Y... in AZ, not AK :(Did hear NB6M in QSO, but he faded before the end. Missed a LOT of callers due to nasty QRN. More later

73
AA1MY
Seabury & Sharon Lyon
99 Sparrowhawk Mtn Rd
Bethel ME, 04217 U.S.A.
207-836-2576

Virus Protection by Norton and ZoneAlarm
----- Original Message -----
From: "Bruce Rattray" <rattray@gpfn.sk.ca>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Sent: Monday, August 12, 2002 12:32 AM
Subject: AA1MY

>
> Just heard Seab calling CQ, on 7.039 at 0441Z and he might have heard me
> at 0442Z, he was RST 119 here....hope he gets stronger....
>

> ..72/73 - Bruce (VE5RC+VE5QRP) QRP-C#1 QRP-L#886 ARCI#9683 Zombie#272
> A-1 Operator Club - 10/10# 944 - QRP Borg#1 - Whiner#10 -
> - VE5QRP SOC#11 - VE5RC SOC#12 - oo#148 - K2#2032 - COG#15 -
> "QRP! How sweet it is!" "I am da man wit "DAH" paddle!"
>
>

Date: Mon, 12 Aug 2002 00:19:09 -0500 (EST)
From: <igeq100@iupui.edu>
To: "Brice D. Hornback" <bdh@cyberbound.net>
Cc: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [132144] Re: Clisby Vertical Milling Machine and Lathes
Message-ID: <Pine.GSO.3.96.1020811235644.8557A-100000@jade.iupui.edu>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Hi, Brice -

Just a few thoughts in regard to your query. My opinion is that it is best to start out with a simple design that lends itself to the capabilities of the small machine. As you look over the many keys on the market (or from the past) that you might want to try to duplicate, you will find that many of them use castings or stampings that are beyond the capabilities of a small machine. As you consider a design, bear in mind the traverse distances available on the mill and/or lathe. It is very difficult to make a clean job of milling a long part if you have to move and remount the workpiece partway through the operation. This is not to say that elegant work is not possible with a small machine; it certainly is, but it takes some planning ahead and creative design.

Because the small machines are not as rigid as larger ones, it is more difficult to work to absolute dimensions. A way around this is to use one part to dimension the others. For instance, if screw holes have to match precisely to join two pieces, arrange it so that you can use one piece as the drilling (and tapping) guide for the mating piece. Also, if you spend a little time making jigs and templates to guide your work, you can make your work much easier. A case in point: if you need to make several holes precisely centerd in the edge of a piece of 1/4 inch bar stock, make a jig by first drilling a hole in a piece of larger stock. Using this drilled hole as a guide, mill a channel 1/4 inch wide in which the hole is symmetrically placed. This piece can then be fitted over the edge of your 1/4 inch workpiece and it will locate your critical hole quite precisely in the middle of the work.

The above may not be particularly clear, but the bottom line is: know the limitations of the machine, work within them, and you can produce impressive and elegant work.

Hope that this is encouraging to some aspiring key makers.

72,

Richard Meiss, WB9LPU

On Sun, 11 Aug 2002, Brice D. Hornback wrote:

> Does anyone here have any advice for someone starting out that wants to make
> straight keys and paddles using a small milling machine?
>
> By the way, I uploaded some movies of some stuff being made on these small
> machines. They should give you a better idea of what these things are.
> Check it out.
>
> Clisby Miniature Machines
> <http://www.cyberbound.net/clisby>
>
> 73/72/71! de Brice KA8MAV
>
>
>
>

Date: Sun, 11 Aug 2002 22:33:46 -0700
From: "Doug Hendricks" <ki6ds@dospalos.org>
To: "qrp-1" <qrp-1@lehigh.edu>
Subject: [132145] KI6DS Rock Mite Makes First QSO with K0EVZ
Message-ID: <033901c241c1\$d630ef60\$1fa3ad40@DOUG>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="Windows-1252"
Content-Transfer-Encoding: 7bit

Today I decided to finish up my Rock Mite and put it in a case. No way was I gonna be a "case slacker" like a certain guy up in the woods of NH, or Maine or wherever ol' Seabiscuit lives. No way. I built a case for my RM out of PC board. It is 2.75" x 3.00" on the base, and then I used two 1.00" x 3.00" PC Board Panels for the front and back. I saw a case exactly like this at Dave Gauding's house this summer when I visited, and he did something really neat that makes the case rock solid. He used two 4-40 screws to connect the upper corners of the front & back panels, and it works great. Thanks for the neat idea Dave.

I put the BNC, 2.1mm Power Connector, Phone and Paddle jacks all on the back

panel. The front panel looks rather bare with just the push button, but hey, Mr. Benson designed this to be a simple radio, and it is easy to build and operate.

I got every thing in the case, applied power & NO SMOKE, it works. My wife came running out to the radio desk to see if I was ok when she heard me whoop and holler, then looked at me with that "roll your eyes wife look" that all of them have, especially when we are playing with our toys.

I got on the air and listened. Fairly clear frequency, not too much action. I called CQ 4 or 5, 2 x 2 calls (CQ CQ de KI6DS KI6DS/RM K) Finally, Doc Lindsay answered me. It was tough because Doc was really low in the passband, but I got his call and sent him a 339, he sent me a 339 back, and state #1 was in the books. Geeze, how many guys would like to have their first qso with North Dakota??????????? Thanks Doc for staying in there and pulling me out. I have sent Rod, N0RC, pictures of the "West Coast Rock Mite" and I am sure he will be posting them. 72, Doug

Date: Mon, 12 Aug 2002 06:03:35 +0000
From: "Dennis Ponsness" <wb0wao@hotmail.com>
To: qrp-l@lehigh.edu
Subject: [132146] Rock-Mite almost ready to sear the ether!
Message-ID: <F130KDkb9pPFR6sKBEr000003f4@hotmail.com>
Mime-Version: 1.0
Content-Type: text/plain; format=flowed

Fellow "Rockers"

Well, I finished up my RM Sunday morning when I got home from work. Need to get to the hardware store in the morning to get the PCB mounts. Putting mine in an Eagle case (the smallest one Mouser sells) with the steel cover - ventilated - and the aluminum base and panels. Power and BNC on the back; phones, paddle and switch on the front. Gonna finish it up today and test it out! Hope to be QRV on my nites off - Tuesday and Wednesday!

72 es oo

Dennis - WB0WAO

NJQRP #329
FPQRP #-347
SOC #499
FISTS # 9299
GACW #622

Send and receive Hotmail on your mobile device: <http://mobile.msn.com>

Date: Mon, 12 Aug 2002 07:25:38 +0100
From: Goran Hosinsky <hosinsky@jet.es>
To: rattray@gpfn.sk.ca, QRP-L <qrp-l@lehigh.edu>
Subject: [132147] Re: palm pilots
Message-ID: <3D5754E2.3000701@jet.es>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit

Try www.g4fon.co.uk

73
Goran ea8yu
La Palma island

Bruce Rattray wrote:
> I'm interested in finding out about palm pilots to use for logging

Date: Mon, 12 Aug 2002 00:44:20 -0700
From: "Doug Hendricks" <ki6ds@dospalos.org>
To: "qrp-l" <qrp-l@lehigh.edu>
Cc: "'Gentleman Jim Cates'" <wa6ger@aol.com>
Subject: [132148] So You Want to be a Builder, Huh? Part 3
Message-ID: <034f01c241d4\$13e852a0\$1fa3ad40@DOUG>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

If you have been following this series, you have been through the Tuna Tin 2, VE3DNL, and the ScQRPion Stinger Singer. Now we are ready for our first commercial kit, the Rock Mite, which is a crystal controlled transceiver that was designed by Dave Benson, K1SWL as a project for the attendees of Lobtercon and Ft. Tuthill. The project turned out so well that Dave decided to make it a commercial product and I am sure glad that he did.

The Rock Mite is on 40 meters, it is a CW Transceiver, and I think it is the easiest to build CW Transceiver in the history of ham radio, grin. The kit is a bargain too, costing \$25 delivered to your door if you are in the US or Canada. Please check <http://www.smallwonderlabs.com/> for info on ordering the Rock Mite, and for cost if you live overseas.

When I built my Rock Mite I used the following procedure. The first thing that I did was to solder the NE612 IC on. It is in a SOIC package, which means it has 50 mil spacing of the pins. Here is how I did it. I placed the IC on the board, making doubly sure that it was oriented correctly. I checked the layout twice to make sure. When I was positive that I had it the right way, I held it with my finger pressing down, and lined up the pins with the pads. Then, I tacked one pin on the corner. Checked to make sure the rest of the pins were lined up, and they were, so I soldered the opposite corner pin. I checked alignment again. Everything was fine, so I soldered the rest of the pins. Piece of cake. (Yeah, I know, I've done it many times. But you can do it too!! Just take your time and check and recheck). If it is not lined up after the first pin has been soldered, just touch the first pin with the iron and when the solder flows, adjust the IC until it is lined up, and then proceed.

Next I soldered in the two IC sockets, making sure that they were oriented right, and flat on the board. Then I soldered the transistors, then the diodes. Then the two crystals, making sure to ground both of them using clipped off resistor leads. Next, I separated all of the capacitors. I noted that there were several mono caps, the gold ones, and that there were 6 marked 104, and 1 marked 102, but that they all looked similar. To keep from misplacing a cap in the wrong place, I decided to solder in the 102 cap first, then all of the 104's. Next, I put in the 103's, then worked down in value until I had all the caps in. When I put the electrolytics in, I double checked the polarity, making sure that the longer lead went into the hole marked with a +. It became easy to find where they went because of the "landmarks" of the IC's and transistors on the board. I was careful to check the silkscreen and parts placement guide in the instructions. Both are accurate as far as I can tell.

After I did the caps, I found the three chokes and installed them. I had 3 to do, 2 of them being the same value and one being different. Again, I installed the odd one first, then the 2 of the same value. That is very important in this kit, as the 1 is a 10 uH and the two are 1 uH. Easy to confuse and get the wrong value.

I am going to let you in on a secret that I use when sorting resistors. I orient them the same way, (gold band at the same end), and then sort first by the third band. Black, Brown, Red, Orange, Yellow, Green. Then I sort each "band" group by value, high to low. When I finish I have the resistors all in order on the bench top, running from high to low in value. Then I took the board, found where a resistor went on the parts placement guide,

then it was a simple task to find that value and solder it in. Another trick. Use the circuit board to act as a lead bender for the resistors. I hold the body of the resistor against the edge of the board and bend the resist over the board 90 degrees. Then, I take the lead and finish the bend making it 180 degrees and making a U shaped bend. The board edge acts as a gauge to keep every thing the same. I also orient all caps so that I can read the value from the bottom of the board, and from the left side. Resistors are mounted with the gold band against the board. If they are mounted flat, the gold band goes to the right or to the bottom, depending on the orientation of the resistor.

When you finish the resistors, you are done. I always install one part, turn the board over, spread the leads so the part holds itself in, and solder. Then the next part, etc. I mount all parts on the board as close as I can, except for crystals which I mount about 1/32" off the board.

When the board is done, you are ready to inspect. Turn the board over and look at every solder joint. They all should be bright and shiny, and there should be a part in every hole, except the ones for the connector wires. I like to use solid wire to make my connections to the connectors. I use #24 insulated solid wire. (A good source is some twisted pair telephone cable).

Now set the board aside as it is time to prepare the case. I made my case out of pc board, but you can use anything that you wish. Drill the holes for all the connectors and make sure that they fit. Then hook up the connectors to the board using the hookup wire. Since I used a metal case, I did not run a ground wire to any of the connectors, but used the common ground of the case. I did ground the board to the case though.

Why is the Rock Mite recommended as a first transceiver kit? Because it is easy to build, it is cheap, the directions are very clear, the board is first quality and easy to solder, the parts are easy to identify, and it is very hard to screw this one up. It is gonna work. Plus, you get to work with several different types of parts now, and because you have some experience and confidence from successfully building the first three kits, this one is a "snap". Believe me you will be proud of it and yourself when you finish.

Let me go back to the board. Dave Benson is among the best in the business at laying out boards. Nothing makes me more irritated than to buy a commercial kit, and find out that the parts don't fit!! I hate it when I have to bend capacitor leads to fit holes. I have never had to bend a lead to make any part fit on a Dave Benson designed kit. That is important to newcomers, because if you have to bend the leads to fit, you got the wrong part in the wrong place. Dave pays attention to small details like that, and it shows in the quality of his kit. His kit is also silk screened and solder masked. Why anyone, anywhere would use a board in a kit that was not silk screened and solder masked is beyond me. The cost is pennies per

board, and the problems that it solves are huge.

Another reason for picking the Rock Mite is that there are NO adjustments to make when you finish building. You don't have to peak any circuits, adjust any trimmers, wind any toroids, nothing, nada. It is truly a plug and play radio. Perfect for the beginner. This concludes Part 3. In part 4 we will look at a couple of station accessories that give you even more experience homebrewing, and give you a couple of pieces of gear that you will need to get on the air. See you next time. 72, Doug, KI6DS

Date: Mon, 12 Aug 2002 06:02:00 -0400
From: John R Kirby <n3aaz-qrp@juno.com>
To: qrp-1@lehigh.edu
Subject: [132149] 88 foot dipole >?<
Message-ID: <20020812.060304.-391567.0.n3aaz-qrp@juno.com>
MIME-Version: 1.0
Content-Type: text/plain
Content-Transfer-Encoding: 7bit

Regardless of feeder length and type . . .

What is magic about an 88 foot 'dipole' fed in the center?

John
N3AAZ
FM 19 xa

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<http://dl.www.juno.com/get/web/>.

Date: Mon, 12 Aug 2002 05:08:15 -0500
From: Chuck Carpenter <w5usj@9plus.net>
To: n3aaz-qrp@juno.com,
"Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>
Subject: [132150] Re: 88 foot dipole >?<
Message-ID: <3.0.2.32.20020812050815.007cfd10@mail.9plus.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

John,

Take a look at the data here,

<http://www.cebik.com/88.html>

and for the 44 ft version,

<http://www.cebik.com/aledz.html>

At 06:02 AM 08/12/2002 -0400, John R Kirby wrote:

>

>Regardless of feeder length and type . . .

>

>What is magic about an 88 foot 'dipole' fed in the center?

>

>John

>N3AAZ

>FM 19 xa

>

>

>-----
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>Join Juno today! For your FREE software, visit:

><http://dl.www.juno.com/get/web/>.

>

Email Alt: w5usj@arrl.net, w5usj@go.com

Chuck Carpenter, W5USJ, Point, Rains Co., TX - EM22cv, NETXQRP #1

QRP-ARCI #5422, QRP-L #1306, QRPp-I #115, ARS #1280, SOC #57

Zombie #759, COG #11, 6 Club #201, NETXQRP <http://www.netxqrp.org>

Date: Mon, 12 Aug 2002 17:09:46 +0700

From: =?iso-8859-1?Q?bam_yb=D8ko/1_SOETRISNO?= <unclebam@indosat.net.id>

To: qrp-l@lehigh.edu

Subject: [132151] Re: Very Good Main Antenna

Message-ID: <003701c241e8\$805d2000\$99429bca@unclebam>

MIME-version: 1.0

Content-type: text/plain; charset=iso-8859-1

Content-transfer-encoding: QUOTED-PRINTABLE

Karl, k5di and Fred, k5qlf

as i know so far, it was cebik, w4rnl who introduced (and do some extensive
eznec works in evaluating it) the magic 88' (isn't that =3D love-n-kisses?)
antenna design.
of course you can find his "original" paper on this in cebik.com ...

BTW, for years i used the surban multibander for "no tuner" 40 and 20M
works, which is indeed really suitable for my application: morning range
in 7.060 or 7.070, check in to "indonesia nusantara net" (7.055) at 10:00
utc, then in the evening (12:00z) the SEA(south east Asia)-net (14.225),
followed later by being qrv in the "family hours" (14.235)

(i hv right in front of me some qsl cards - with 5/7 reports in 20 or 15M-
=66rom k3....., k7... , n6 confirming that the [tentec scout 555 =
@ 30watt
+ w6jjz suburban multibander @ 11 mtr] combo is really working fb).

to work other bands i use it with my hmbw z-matcher (ala bill orr,
w6sai-SK)

instead of using open wire as feeder line (as it was recommended in
lofgren's original article) i used 300 ohm foam dielectric tv feeder =
(got it
frm cablexpert.com) which is then spliced with rg58a/u to tx.
this way the overall dimension is a bit shorter (2x 12.44 mtr flat-top +
p +
11.34 mtr tv line vs 2x 13.30 mtr flat-top + 12.74 mtr open wire)
indeed, i coiled the top end of the coax (6 turns of 10" dia.) before=
it's
spliced to the tv twinlead to form a choke balun
(a few months ago i have communicated with charlie, w6jjz himself on =
this
use of tv feeder, but unfortunately the files were "vanished" when m=
y HD
was contaminated by klez virus weeks ago).

73, de bam yb=D8ko/1

----- Original Message -----
=46rom: "Karl F. Larsen" <k5di@zianet.com>

To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Sent: Monday, August 12, 2002 8:14 AM
Subject: Re: Very Good Main Antenna

Hi Fred, I have no idea who first used a wire 88 feet long as a center
fed zepp antenna(SNIP).

=2E..... I don't have any of Charles Lofgren, W6JJZ writings and it
appears I'm going to have to find them.

On Sun, 11 Aug 2002, Fred Bonavita wrote:

=2E.... For another, earlier perspective on the qualities of the
88-foot doublet, see "The Suburban Multibander," by Charles
Lofgren, W6JJZ, in the ARRL Antenna Compendium, Vol. 2
(1989), at page 103. Charlie, who is the godfather of
Z-match tuners, offers an enlightened look at the history
and design of this simple and dependable antenna for those
who do not have room for an antenna farm. I have used it
successfully since this article first appeared. The only
modification I made was to skip the choke balun and bring
the 450-ohm twinlead directly to the terminals on my
W6JJZ-design Z-match. It plays beautifully.....

73, Fred, K5QLF, San Antonio..

Date: Mon, 12 Aug 2002 05:33:31 -0600 (MDT)
From: "Karl F. Larsen" <k5di@zianet.com>
To: Trevor Jacobs <kg6cyn@earthlink.net>
Cc: Low Power Amateur Radio Discussion <qrp-1@lehigh.edu>
Subject: [132152] Re: Very Good Main Antenna
Message-ID: <Pine.LNX.4.44.0208120528410.1600-100000@Daisy.dog>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

No, not if you want a radiation pattern that has only a narrow
null off the ends of the wire. And you do get the double extended zepp
action on 20 meters if you use 88 feet.

I think a good bold works all the time statement is not make the dipole longer, get it higher!

On Sun, 11 Aug 2002, Trevor Jacobs wrote:

> Karl and all,
>
> One thing that I've always been told and it seems to be a good rule with
> the Center Fed Zep, is to get as much wire in the air as possible. Now,
> I know that you have to be careful about feeding the feedline end at a
> voltage node at the tuner, but I've always been able to either add or
> subtract a bit of feedline to take care of this. Just avoid the 1/4 wave
> lengths of feedline of the bands that you want to use the antenna for
> and it should work fine. The Center Fed Zep is my personal favorite for
> limited space, and works very well.

>
> 73's Trev KG6CYN

> <http://home.earthlink.net/~kg6cyn>

> <http://www.qsl.net/kg6cyn>

>
> ----- Original Message -----

> From: Karl F. Larsen <k5di@zianet.com>

> To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>

> Sent: Sunday, August 11, 2002 6:38 PM

> Subject: Re: Very Good Main Antenna

>

>

> >

> > You are correct Dave, LB Cebick orients his antenna different
> > than I do (have no idea why I do mine 90 degrees off from him) but I
> > brought up his web page and saw my error. So the 20 meter peak in the
> > pattern is in the same direction as the peaks on 40 and 80 meters

> >

> >

> > On Sun, 11 Aug 2002, Dave Sjolín wrote:

> >

> > > Hi Karl, I think you mispoke on the Double Extended Zepp. Gain would
> > > be in

> > > the directions perpendicular to the wire, not off the ends, at least
> > > on 20

> > > meters. Perhaps by the time you get to ten meters, you may see some
> > > radiation off the ends as the pattern gets more complex, but not at
> > > the

> > > design frequency. At least thats the way I understand it.

> > >

> > > 73 de Dave, N0IT

> > >

> > > ----- Original Message -----
> > > From: "Karl F. Larsen" <k5di@zianet.com>
> > > To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
> > > Sent: Sunday, August 11, 2002 3:30 PM
> > > Subject: Re: Very Good Main Antenna
> > >
> > >
> > > > Hi Chris, there is NOTHING real magic about 88 feet except that
> > > > 88 feet is the length for a Double Extended Zepp on 20 meters and
> > > it
> > > gives some gain off each end of your antenna. Also, it seems to
> > > keep
> > > > other bands radiation pattern pretty circular so you don't have
> > > many
> > > > holes in the pattern.
> > >
> > >
> > >
> > >
> > >
> > >
> > --
> > Yours Truly,
> >
> > - Karl F. Larsen, (505) 524-3303 -
> >
>
>

--
Yours Truly,

- Karl F. Larsen, (505) 524-3303 -

Date: Mon, 12 Aug 2002 11:42:58 +0000
From: "Leon Heller" <leon_heller@hotmail.com>
To: rattray@gpfn.sk.ca, qrp-1@lehigh.edu
Subject: [132153] Re: palm pilots
Message-ID: <F66KEvniheykwLS4xlG00007162@hotmail.com>
Mime-Version: 1.0
Content-Type: text/plain; format=flowed

>From: Bruce Rattray <rattray@gpfn.sk.ca>

>Reply-To: rattray@gpfn.sk.ca
>To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
>Subject: palm pilots
>Date: Sun, 11 Aug 2002 22:20:32 -0600 (CST)
>
>
>I'm interested in finding out about palm pilots to use for logging
>purposes...who's using what?, programs?, capacity?. the used market
>for palms, etc...thank you...oh, and the "accordian" keyboard...

I use a 'Tiny' spreadsheet, to satisfy the UK license requirements. I just record the minimum necessary. There probably are dedicated logging programs around. I've got IBM's DB2 for the Palm - relational database software. A very sophisticated logging program could be developed around that.

I've got a Palm IIIx (8Mb), but you can pick up the older Pilots very cheaply. The IIIx is no longer made, and would be a good buy if you can get one cheap.

Use NiMH batteries when you get one, I find they last at least a couple of weeks between charges.

73, Leon

--

Leon Heller, G1HSM Tel: +44 1424 14790

Email:leon_heller@hotmail.com

My web page: http://www.geocities.com/leon_heller

My low-cost Altera Flex design kit: <http://www.leonheller.com>

Send and receive Hotmail on your mobile device: <http://mobile.msn.com>

Date: Mon, 12 Aug 2002 11:45:35 +0000
From: "Leon Heller" <leon_heller@hotmail.com>
To: co2ha@jcce.org.cu, qrp-1@lehigh.edu
Subject: [132154] Re: Info abt ceramic filter??
Message-ID: <F54LZCHusMjQHtMFauk0000604f@hotmail.com>
Mime-Version: 1.0
Content-Type: text/plain; format=flowed

>From: "Francisco Hernandez Alonso" <co2ha@jcce.org.cu>

>Reply-To: co2ha@jcce.org.cu
>To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
>Subject: Info abt ceramic filter??
>Date: Sun, 11 Aug 2002 23:08:45 -0400
>
>Hi OM s!!!
>
> I need technical information about ceramic filter Murata
>CFN 455 E
>Thanks in advance!!!

<http://www.murata.com/index.html>

73, Leon

--

Leon Heller, G1HSM Tel: +44 1424 14790

Email:leon_heller@hotmail.com

My web page: http://www.geocities.com/leon_heller

My low-cost Altera Flex design kit: <http://www.leonheller.com>

Join the world s largest e-mail service with MSN Hotmail.
<http://www.hotmail.com>

Date: Mon, 12 Aug 2002 07:48:48 -0400
From: "Jason Hissong" <jhisson1@columbus.rr.com>
To: <qrp-1@lehigh.edu>
Subject: [132155] Rock Mite... ordered
Message-ID: <008001c241f6\$38c351c0\$6501a8c0@sirius>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hi guys,

Just ordered the Rock Mite from SWL. Thanks everyone for your replies to my query. I will post a builder's report (from a newbie perspective) on my web site. Some of my current projects that I have just completed are posted up there as well minus the builder reports.

Thanks again es 72!

Jason Hissong - N8XE

<http://www.qsl.net/n8xe>
K2# 1270
FISTS #6338
FPQRP #443
ARLHS #661

Date: Mon, 12 Aug 2002 07:49:16 -0400
From: "Michael C. Boatright" <ko4wx@mindspring.com>
To: qrp-1@lehigh.edu
Cc: NOBN@aol.com, Pickett Cummins <jpcummins@charter.net>, jroof@mindspring.com
Subject: [132156] Re: NoGaGuppy: Help me mate TT2 with MRX-40
Message-ID: <5.0.2.1.2.20020812073617.02321db8@pop.mindspring.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

Daniel,

Your problem with the TT2 is that in this transmitter, the rig is keyed by interrupting the +12V supply line. Same problem with the NOGAnaut transmitter, a subject of some of my QRV? construction articles. In October, 2000, I showed a simple circuit (4 parts, a PNP transistor, 2 resistors and a capacitor) that will cure all of your woes and will make your rig grounded keying, compatible with the NOGAGuppaWatt as well as many types of keyers. The article is reproduced on my personal website at: <http://www.qsl.net/ko4wx/Articles/QRV-Oct-2000.pdf> (or go to <http://www.qsl.net/ko4wx>, click Articles, then click on October, 2000: Finishing the NoGaNaut).

Note that you probably need something like a 2N2907 (more current handling) for the TT2, or parallel (pin for pin, emitter-emitter, base-base, collector-collector) a couple or three 2N3906's (the transistor specified in the article) for more power handling.

I'll talk to the NOGA kit-meisters about possibly adding this as an optional accessory to the NOGAGuppy as yours is not the first question I've dealt with on this subject (for an extra buck or two).

72 de Mike, K04WX
Michael C. Boatright

Date: Mon, 12 Aug 2002 08:05:34 -0400

From: "Vincent A. Santis" <vsantis@earthlink.net>
To: "QRP List (E-mail)" <qrp-l@lehigh.edu>
Cc: "Tentec (E-mail)" <tentec@contesting.com>,
"Tentec (E-mail)" <tentec@contesting.com>
Subject: [132157] FS Call Book CDR
Message-ID: <01C241D7.1C71F680.vsantis@earthlink.net>
MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: 7bit

Hi,

I have a Winter 2002 RAC(Flying Horse) Call Book on CD. Price is \$25. 00 shipped
Priority Mail in CONUS.

Please contact off line

Vince Santis,N1VS
Winsted, CT
NEQRP # 598
PRP-L # 2372
FISTS# 8053
CC # 1161
K1 #841

Date: Mon, 12 Aug 2002 08:16:44 -0400
From: "William K. Harding" <k4ahk@ix.netcom.com>
To: "QRP-L Mail" <qrp-l@lehigh.edu>
Subject: [132158] UC3909N
Message-ID: <E17eE6S-0004vK-00@smtp10.atl.mindspring.net>
Mime-version: 1.0
Content-type: text/plain; charset="US-ASCII"
Content-transfer-encoding: 7bit

Does anyone know where to find a good battery charger circuit using a
UC3909N 20-pin DIP?

Bill - K4AHK
Burke, VA FM18

Date: Mon, 12 Aug 2002 08:24:47 -0400
From: Tom Mc <tjmc@erols.com>

To: rattray@gpfn.sk.ca
Cc: Low Power Amateur Radio Discussion <qrp-1@lehigh.edu>
Subject: [132159] palm pilots and loggers
Message-ID: <3D57A90F.F0901D5B@erols.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

> I'm interested in finding out about palm pilots to use for logging
> purposes...who's using what?, programs?,

I started using my Palm 105 a little while back for logging in the
field...
and use the following so far;

1) <http://www.qsl.net/k0pc/K2Logger.htm>

This is a logger that is design to work with the K2. It operates thru
the rs232 port of the radio and logs the freq and time after you enter
the call... it also has CW macros to send CW messgs of your choice
(config in the setup) by keypress. It also functions well just as a
stand alone logger.

Only downside of this prgm is the d/l of the palm database, the author
does not supply a convertor but there are a few available (palm db to
text or spdsheet).

2) qrpLog by N9WW (Jim Gelbort N9WW n9www@arrl.net)

This logger is available to qrp-1 and other members by emailing Jim...
It operates on the palm very well and exports to yr pc in
industry-standard ADIF format (allows import into most major logging
prms)

Easy edit and view features.

A very nice stand alone logger.

best

Tom aa2vk

--

```
*****
*   Member of NORCAL, NJQRP, LIQRP, HFPAck  *
*               K2 #1213                      *
* LIQRP Web Page: www.erols.com/tjmc/liqrp *
*   Personal web page : www.erols.com/tjmc  *
*****
```

Date: Mon, 12 Aug 2002 07:47:30 MDT

From: Mark Brueggemann <markb@abq.com>
To: "Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>
Subject: [132160] Re: Got My Rock-Mite!!!!
Message-ID: <B0007060967@mercury.abq.com>

Hey Folks-

I saw my first Rock Mite at the Ft. Tuthill AZ hamfest, and am getting caught up with all the hype about it on this list. But I still haven't picked up where you buy one. Could someone please pass a URL? Thanks...

Mark

Mark Brueggemann K5LXP
Albuquerque, NM markb@abq.com
Web Page: <http://www.qsl.net/k5lxp>

Date: Mon, 12 Aug 2002 06:17:15 -0700 (PDT)
From: Lloyd Lachow <llachow@yahoo.com>
To: qrp-1@lehigh.edu
Subject: [132161] Re: Smith Chart for Dummy's : punctuation for dummies
Message-ID: <20020812131715.58027.qmail@web10002.mail.yahoo.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii

Want to talk about more than one dummy? That would be dummies. Want to talk about something that belongs to a dummy? Then you'd say dummy's. This is true for almost everything, but watch out for its: You say the dog is chewing its bone, but it's (it is) a beautiful day.

There! Isn't that refreshingly simple??

Thanks for letting me get that out. Whew!

de K3ESE

Do You Yahoo!?
HotJobs - Search Thousands of New Jobs
<http://www.hotjobs.com>

Date: Mon, 12 Aug 2002 09:14:16 -0400
From: "gergea" <w4gfa@bellsouth.net>
To: <qrp-l@lehigh.edu>
Subject: [132162] Norcal 20 whoop
Message-ID: <004901c24202\$292a48c0\$10b69c42@z7r3k8>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

I am trying to find the fix for chirp in my Norcal-20.
Seem to remember it has to do with voltage regulator? I can not find the
reference I am looking for. Can someone help? I have the QRP-L archive
disks. Thank you

George
w4gfa

Date: Mon, 12 Aug 2002 07:36:44 -0600
From: "Chad Nelson" <galahad@boisecenter.net>
To: <qrp-l@lehigh.edu>
Subject: [132163] Re: QRP - GPS redux
Message-ID: <001201c24205\$541cd2c0\$c437bbd0@galahad>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

National Geographic sells a really nice mapping program "a little pricey for
me" and a special paper that will leave you with
a water safe map, I collect maps but cannot bring myself to drag them into
the field so I just run off a copy of the area I am
going to be from topozone.com and you can also use it to get your waypoints
like I do for my old Garmin.

WARNING I carry a lensatic compass and I am not afraid to use it!
Chad Nelson KD7FDU

>
> One of the hazards of having portable equipment is that you want to take
> it
> with you. (Grin) But for hiking, I'd stick with paper. (NOT printed on an
> inkjet printer, though - the ink runs if it gets wet.)
>
> Dave
>

> -----
> "You can fool some of the people all of the time. That's enough to make a
> living." - Lance Burton
> -----
> Dave Hinerman
> WD8CIV@att.net
>
>

Date: Mon, 12 Aug 2002 09:43:43 -0400
From: "Alverson, Tom" <TomA@xetron.com>
To: "'w4gfa@bellsouth.net'" <w4gfa@bellsouth.net>,
 "'Low Power Amateur Radio Discussion'" <qrp-l@lehigh.edu>
Subject: [132164] RE: Norcal 20 whoop
Message-ID: <7D72C1B2F7A3D21191F8006097149AC002EFBCE8@s3.xetron.com>
MIME-Version: 1.0
Content-Type: text/plain

One fix was to change the regulator to a different brand with better
regulation. Another fix was to double regulate the supply:

<http://www.qrparci.org/east/Norcal20.htm>

73 de Tom NU8D

-----Original Message-----
From: gergea [mailto:w4gfa@bellsouth.net]
Sent: Monday, August 12, 2002 9:14 AM
To: Low Power Amateur Radio Discussion
Subject: Norcal 20 whoop

I am trying to find the fix for chirp in my Norcal-20.
Seem to remember it has to do with voltage regulator? I can not find the
reference I am looking for. Can someone help? I have the QRP-L archive
disks. Thank you

George
w4gfa

Date: Mon, 12 Aug 2002 09:48:34 -0400 (EDT)

From: wb0wao@hotmail.com (Dennis Ponsness)
To: qrp-1@lehigh.edu
Subject: [132165] Rock-Mite Rockin'!!!!
Message-ID: <21909-3D57BCB2-5781@storefull-2151.public.lawson.webtv.net>
Content-Disposition: Inline
Content-Type: Text/Plain; Charset=US-ASCII
Content-Transfer-Encoding: 7Bit
MIME-Version: 1.0 (WebTV)

Yiiiipppppppeeeee

It works and I'm QRV calling cq now for about an hour. Give a listen if you can.

EN84ij Northern Michigan

73 es oo

Dennis - WB0WAO

NJQRP #329
FPQRP #-347
SOC #499
FISTS # 9299
GACW #622

Date: Mon, 12 Aug 2002 06:56:51 -0600
From: "Rod N0RC" <rod@n0rc.us>
To: <markb@abq.com>,
"Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>
Subject: [132166] Re: Got My Rock-Mite!!!!
Message-ID: <00b101c241ff\$ba9ef240\$6501a8c0@greyrock>
MIME-Version: 1.0
Content-Type: text/plain;
charset="Windows-1252"
Content-Transfer-Encoding: 7bit

Mark,

The Rock-Mite is a new offering from Dave Benson, Small Wonder Labs.
www.smallwonderlabs.com Click on the home page link for full details.

Also check out "the Rock-Mite files" a Rock-Mite resource page I am

maintaining: <http://www.radioactivehams.com/~n0rc/rm/> At the very bottom of my page you will find links to others websites with Rock-Mite information.

73, Rod N0RC

----- Original Message -----

From: "Mark Brueggemann" <markb@abq.com>

To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>

Sent: Monday, August 12, 2002 7:47 AM

Subject: Re: Got My Rock-Mite!!!!

> Hey Folks-

>

> I saw my first Rock Mite at the Ft. Tuthill AZ hamfest, and
> am getting caught up with all the hype about it on this list.
> But I still haven't picked up where you buy one. Could someone
> please pass a URL? Thanks...

>

>

>

> Mark

>

> Mark Brueggemann K5LXP

> Albuquerque, NM markb@abq.com

> Web Page: <http://www.qsl.net/k5lxp>

>

Date: Mon, 12 Aug 2002 08:49:56 -0500

From: David Gauding <david.gauding@bbs.galilei.com>

To: qrp-1@lehigh.edu

Cc: Steve.Lawrence@itwfeg.com

Subject: [132167] Re: Slinky Antennas -- Practical Help?

Message-ID: <5.1.1.6.0.20020811222849.00a05690@bbs.galilei.com>

Mime-Version: 1.0

Content-Type: text/plain; charset="us-ascii"; format=flowed

Hello Steve,

I've made a fair share of contacts with various slinky-type antennas over the years. Hope these first-hand comments will be helpful to you.

At 10:20 PM 8/11/02 -0400, you wrote:

>For those who've experimented with Slinky based antennas, I have a couple
>of questions...

>

>1.) Can you solder a feedline to the steel Slinky? If so, how? What
>kind of solder? Flux?

The slinky coils I used had a zinc coating. File this off and using a high-wattage iron you can solder right to the steel. I'm sure flux will be helpful in getting the joint right. The easiest thing to do is just hook the feedline to the coils with alligator clips - quick & painless. Installing the slinky on its messenger line is not real easy so anything that can be done to streamline the total process is worth considering. Having a coax feedline dangling in the way doesn't help much.

>2.) Has anyone tried a delta or gamma match type couple to a feedline
>(say 300 ohm twinlead or 450 ohm window line)? I'm talking about a match
>where the feedline is connected across a number of turns of the Slinky
>coil, on either side of center, no center insulator... What were the
>results?

A friend of mine and elmer (now a silent key) tried this in the early 80's, reporting that a temporary delta match worked for him, but I don't remember the details. The "arms" were heavy copper wire and terminated in alligator clips so he could quickly change positions while searching for a match. The feedline was homebrew 600 ohm, its spacers constructed from yellow Bic pen barrels - pretty neat. My friend's wife was in charge of office supplies for a private college. The only way educators and staff could get a new pen from her was to turn in the old one - and you know where they ended up! <g>

Later, my elmer saved me from giving up on a commercial slinky antenna (sold then by the Blackstone Group) by suggesting that I change from a coax feed (for a single band) to tuned feeders (for multiple bands).

The coils for the Blackstone Slinky dipole antenna were about the size of grapefruits. There were a lot of them to cover down to 80M, and they were both heavy and awkward. Using the beast on 20M, for example, seemed ludicrous at the time because of all the shorted-out coils hanging around doing absolutely nothing. All of the radiator a remotely tuned doublet is doing something productive which has to be a good thing.

Shorting out coils to achieve resonance for an unbalanced feed line is quite a chore, even with a manufacturer's tuning table on hand, essentially a "ballpark" document in a confined space like an attic. The decision to convert to tuned feeders and remote tuning made a lot of sense at that time and still does.

>3.) In a "typical" configuration (whatever that is) are wire "tails"

>needed at the ends of the slinky when making a dipole for, say 40M and up?

The "orange" sized toy coils that most of us grew-up with will provide a serviceable 10-40M doublet when fully extended to the limit of the coils (just before kinking), and fed with balanced line. The newer "golf ball" sized coils will cover 10-20M. Sometimes 30M can be squeezed out of the smaller doublet thanks to the mechanical length provided by a longer balanced feedline.

From memory, the "orange" coils will only achieve resonance on 20M and higher frequencies when employing an unbalanced feedline. If you want to get 30M and 40M out of those coils the tuned feedline is required.

But, I must tell you that I don't ever recall attempting to tune above 15M for a single-bands using coax and a homebrew slinky. I have not experimented much with the "golf ball" coils but have used them successfully as tuned doublets in second floor bedrooms and hotel rooms. They remain a personal favorite. The weight/thickness of the smaller diameter coils is much less than the "orange" coils and the complete radiator assembly is definitely easier to manipulate.

The unbalanced slinky dipoles are forgiving when it comes to tuning. Once the right number of shorted-out coils is determined they can be compressed or spread without significantly changing the SWR. Without exception, the longer the antenna is stretched out the better it will perform.

I modified an "Aluminum Cloud" (tuned doublet with 24-36" width aluminum foil radiators) by adding "orange" size slinky coils at the end of the elements, and a few more feet of wire after them. This effort put the antenna on 80M. It was badly bent to fit the confined space but did get out. I fed the entire antenna against the station's counterpoises to work 160M. I don't think many cliffdwellers run Top Band out of a townhouse attic but I didn't know any better at the time! <g>

I've fed slinkys successfully with 72 ohm and 300 ohm balanced line. Also, with shielded-balanced line fabricated from parallel runs of RG-58. 40M tuning is bit touchy with the fully shielded lines so that may mean the mechanical length is just barely enough to get the job done. Or, the tuner is happily chowing down on the RF!

>I realize that unlike some other antenna configurations, the Slinky is
>unique in that it's characteristics can be dynamically changed on the fly.
> But, before I start messing, I thought I'd ask the pool of experience!

I assume you mean shorting out coils to change bands. If it's convenient to do this (like eye-level while you are standing-up) it makes sense to me. I'm lazy and prefer tuning the antenna remotely at the rig in addition to enjoying continuous coverage. 1 to 1 matching at the rig is pretty much

assured with the tuner, if that is important to you. With coax (and no tuner) it was rarely a 1 to 1 match in my coax-fed installations.

You can certainly add a tuner to the coax-fed slinky antenna. And, a choke balun to keep RF off the shield and minimize losses. At that point the logic of converting to a tuned feedline becomes more obvious, for slinky installations anyway.

Slinkys are generally installed in less than optimum locations (indoors) - which is why they were/are marketed in the first place. Considering the alternative of not getting on HF at all they are a good solution and quite serviceable.

In my opinion, time spent trying to squeeze the last dB out of slinky-type antennas in marginal antenna environments (like attics) might be better spent elsewhere, i.e. building a good portable antenna or a stealthy antenna to provide additional operating options.

Good luck, Steve. If you experiment with a delta or gamma match for a slinky antenna I would be interested in hearing about that.

Thanks,

de Dave, NFOUR nf0r@slacc.com

Date: Mon, 12 Aug 2002 09:39:06 -0400
From: James Douglas <james.douglas@sympatico.ca>
To: qrp-l@lehigh.edu
Subject: [132168] Globe Patrol Receiver
Message-ID: <3D57BA7A.94203D64@sympatico.ca>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

I have a globe patrol receiver by Tandy that I am trying to restore.
Does anyone have a schematic or info on this 3 transistor regen???? Jim
Douglas VE3DJX

Date: Mon, 12 Aug 2002 08:31:20 -0600

From: "Rod N0RC" <rod@n0rc.us>
To: "Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>,
"cqcl-1" <CQCLIST@yahoo.com>
Subject: [132169] the "Rock-Mite" file UPDATED
Message-ID: <010301c2420c\$edf93c10\$6501a8c0@greyrock>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Folks,

Three new Rock-Mites have been added to the "Rock-Pile". Check it out at:

<http://www.radioactivehams.com/~n0rc/rm/#rp>

One of them is Seab's "bare naked" Rock-Mite used for this weekend's "Rock-Fest"; Doug, KI6DS shows us his nifty PCB case; And Jerry, N0JRN offers up a classic looking "cinnamon Rock-Mite".

73, Rod N0RC
the "Rock-Mite" files
<http://www.radioactivehams.com/~n0rc/rm/>

Date: Mon, 12 Aug 2002 14:50:29 +0000
From: "Tom Dufresne" <tdufres@hotmail.com>
To: qrp-1@lehigh.edu
Subject: [132170] Rock Mite and SMT components
Message-ID: <F130LkTgbLYluLCTaog000000274@hotmail.com>
Mime-Version: 1.0
Content-Type: text/plain; format=flowed

I just got my Rock Mite board, and I notice (and remember) it contains a SMT component. I have never worked with SMT's. DO I install the SMT first, or do I need special irons, or what?

I have not seen this discussed yet..

Thanks

Tom

KC0GXX

Chat with friends online, try MSN Messenger: <http://messenger.msn.com>

Date: Mon, 12 Aug 2002 08:00:19 -0700
From: Bruce Grubbs <mail@brucegrubbs.com>
To: rod@n0rc.us,
 "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [132171] Re: QRP - GPS redux
Message-ID: <E17eGf8-0005C1-00@hawk.mail.pas.earthlink.net>
Content-Type: text/plain;
 charset="iso-8859-1"
MIME-Version: 1.0
Content-Transfer-Encoding: 8bit

On Sunday 11 August 2002 07:55 am, Rod N0RC wrote:

> Bruce, et.al.
>
> I do not imply that the GPS units noted are a substitute for compass &
> map (and the skills to use them). I was only answering the question
> asked by David.
>
> 73, Rod N0RC
>

I didn't think you were, Rod. I tend to overreact to the "It Does Everything" advertising.

While I'm overreacting, I'll also point out that walking a straight line to a GPS fix, or a compass bearing for that matter, can get one into serious trouble in the canyon country or the mountains. Nothing like coming up against a 500 foot cliff to mess up your plan!

That said, these tools (GPS and digital maps) are incredible.

73
Bruce
N7CEE

Date: Mon, 12 Aug 2002 08:07:05 -0700
From: "Glenn Maclean" <wa7spy@attbi.com>
To: <qrp-l@lehigh.edu>
Subject: [132172] Crystals

Message-ID: <000901c24211\$ebd00130\$6401a8c0@ERIN>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

I found this to be a very interesting web site. There is a web tour of how crystals are manufactured. The web tour is fascinating and informative. This company seems to have every crystal you ever wanted.

<http://www.icmfg.com/>

Glenn Maclean WA7SPY

Date: Mon, 12 Aug 2002 12:02:23 -0400
From: Alex <kr1st@amsat.org>
To: Low Power Amateur Radio Discussion <qrp-1@lehigh.edu>
Subject: [132173] PSK31 software with high res waterfall
Message-ID: <3D57DC0F.69B645C2@amsat.org>
MIME-version: 1.0
Content-type: text/plain; charset=us-ascii
Content-transfer-encoding: 7bit

Hi there,

Over the past week I have been trying out different PSK31 software packages to find one that works with a logging program and has the same waterfall resolution as Digipan. Anyone know of such a beast?

Right now my favorite combination is Digipan with YPlog but they don't talk to each other, unfortunately. All other PSK software I have tried has a rather poor resolution in the waterfall screen which makes recognizing signals rather difficult, especially QRP signals.

73,
--Alex (KR1ST)

Date: Mon, 12 Aug 2002 10:10:31 -0600
From: "P.Ermisch" <ermisch@usa.net>
To: "Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>
Subject: [132174] Re: [Rock Mite and SMT components]
Message-ID: <20020812161031.15129.qmail@uwdvg001.cms.usa.net>
Mime-Version: 1.0

Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable

Tom,

K7Q0 has a good explanation at the bottom of his page:

<http://www.qsl.net/k7qo/rocky1.html>

I didn't have the solder he recommended and it would have helped. If you
can't get the specific one he mentions, make sure you use very thin solder.
=

Otherwise, you can get too much on the pads/pins. Not fatal but also not
very
'elegant'.

Paul KB0LUR

"Tom Dufresne" <tdufres@hotmail.com> wrote:

> I just got my Rock Mite board, and I notice (and remember) it contains =
a SMT

> component. I have never worked with SMT's. DO I install the SMT first, =
or do

> I need special irons, or what?

> I have not seen this discussed yet..

> Thanks

> Tom

> KC0GXX

> =

> =

> =

> -----
> Chat with friends online, try MSN Messenger: <http://messenger.msn.com>
> =

Date: Mon, 12 Aug 2002 11:06:05 -0500
From: David Gauding <david.gauding@bbs.galilei.com>
To: qrp-l@lehigh.edu
Cc: Steve.Lawrence@itwfeg.com
Subject: [132175] Re: Slinky Antennas -- Practical Help? (more)
Message-ID: <5.1.1.6.0.20020812090849.00a1d110@bbs.galilei.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

Steve,

Forgot to include this information in my earlier comments on slinky antennas.

There is an interesting slinky/helical variation out there, a vertical. It's called the "Ramada Radiator" and is in an issue of CQ Magazine or 73 Magazine around 1987/1988. The author ran a single "orange size" coil from floor to ceiling and shorted out the coils to achieve resonance from 40M to 10M.

This is a good indoor antenna alternative if you have the head-space available. BTW, I wrote the author (no e-mail then) a letter saying how much I enjoyed like his design and how it was being used. That was six months after his article was published. By that time, he had received ninety-plus letters, which was certainly a very positive sign. Also, that he was replying to every one even if it did not have a stamp or SASE - which was eating-up his commission on the article pretty quickly! <g>

My version of the RR uses sectioned pvc tubing to save space in luggage, and installation time. Instead of a pvc base/stand per the article, I gently wedge my support against the ceiling using a soft rubber racquet ball for tensioning on the bottom. However, my alternative is not as convenient in actual use as the original design.

The coil is supported at the top and bottom with wood dowels (four stub projections). I also have another set of stubs near the middle to help offset compression at the base due to the weight of the coils bearing down. This also helps control the "jiggle effect"! <g>

I now use modified St. Louis Radials with this antenna, replacing single wires and split speaker cord in earlier versions. All seven conductors are cut to 8-1/2' and I use six to eight of them positioned as best I can in the hotel room. Not the best radial system but it works okay and is easily managed in storage and in use. I've got some 40 conductor ribbon here and might make a specialized set of ribbon radials for this application if I start traveling regularly again.

A radial option is an identical "orange" size coil. This is positioned on

the floor in an "L" configuration with its extension matching that of the radiator, if possible. I've shorted out that coil to match the radiating coil on the assumption that both coils will radiate too, since the lower coil is resting on a non-conductive surface. And, I've simply fed the RR against the fully extended coil. I suppose there is some difference in performance but I haven't spent any time comparing.

Another radial option is three of the "golf ball" sized coils in a compact configuration around the base. Lots of wire and looks good too! <g> But, let's face it. In these limited space situations all you want to do is make a few contacts to pass the time. Elegance and laboratory standard performance are not prerequisites. All I want is something for the radiator to push against.

The radial buss is a simple soldered copper wire loop ala the original St. Louis Vertical and the pvc support rests inside of it. The feedline is RG-58 terminated with alligator clips. There is a choke balun near the feedpoint. I have also fed the antenna with twinlead with good results.

I short-out turns to work 20-30-40M using coax and usually touch-up the final match with a tuner. Since the antenna located conveniently and the rig nearby this is an easy procedure. The most power I have put through the antenna is about 40W with a Ten-Tec Argosy. If I had problems with stray RF at that output I don't remember now, but I don't think so.

Finally, during an extended project in CT, we rented a townhouse condo with a very high roof line. I installed an RR in that attic for a few weeks and did okay with it, even got into Europe on 40CW occasionally running QRP. The ground system was aluminum kitchen foil radials (a lot of it) reinforced with masking tape ala the "Aluminum Cloud" design. That antenna was tuned remotely with 300 ohm line.

Suggesting that the old "Ramada Radiator" is a useful limited space design for the traveler and the cliffdweller. If anyone knows the date of the issue with that article I would appreciate a heads-up.

Regards,

de Dave, NF0R nf0r@slacc.com

Date: Mon, 12 Aug 2002 12:38:24 -0400
From: "Mark J. Dulcey" <mark@buttery.org>
To: tdufres@hotmail.com
Cc: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [132176] Re: Rock Mite and SMT components
Message-ID: <3D57E480.6020309@buttery.org>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit

Tom Dufresne wrote:

> I just got my Rock Mite board, and I notice (and remember) it contains a
> SMT component. I have never worked with SMT's. DO I install the SMT
> first, or do I need special irons, or what?
> I have not seen this discussed yet..

Yes, you should install the surface-mount part (an SA612 mixer) first.
It will be really hard to install it if you have installed other parts
already.

Aside from that, follow the usual rule of installing short components
before tall ones. I did the small number of horizontally-mounted parts
first, then the small capacitors, then the other ICs, then the
standing-up resistors and diodes, and the tall parts (crystals and
electrolytic caps) last. The Rock-Mite instructions don't say anything
at all about order of placing the components; I guess Dave feels that
hams can figure it out for themselves.

You don't need a special soldering iron for the SA612; if you use a
quick hand, any iron suitable for modern ham construction won't fry the
part. But a small tip helps a lot; if your iron has interchangeable
tips, find the one with the smallest point and use that. I used a PTS7
long conical tip on my Weller WTCPT; it comes down to a .015 inch point.
(A PTJ7, a screwdriver tip with a very narrow end, might be even nicer,
but my local source of Weller stuff doesn't stock them.)

Date: Mon, 12 Aug 2002 12:40:34 -0500
From: W2EB <w2eb@twcnny.rr.com>
To: qrp-l@lehigh.edu
Subject: [132177] Re: UC3909N
Message-ID: <3D57F312.69A915E6@twcnny.rr.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Bill,

As luck would have it, I just received a sample this morning. I was assuming that the circuit diagrams on their Datasheet and App notes would be enough to help design a decent charger.

Once I have something together, I'll send you the schematic.

73,

Bill
W2EB

"William K. Harding" wrote:

>

> Does anyone know where to find a good battery charger circuit using a
> UC3909N 20-pin DIP?

>

> Bill - K4AHK

> Burke, VA FM18

--

"Thomas Hodgkins died of natural causes"

Date: Mon, 12 Aug 2002 18:42:54 +0200

From: Ingo Meyer DK3RED <dk3red@gmx.net>

To: qrp-1@lehigh.edu

Subject: [132178] Re: Rock Mite and SMT components

Message-ID: <5.1.1.6.1.20020812183649.009eb980@pop.gmx.net>

Mime-Version: 1.0

Content-Type: text/plain; charset="us-ascii"; format=flowed

Hello Tom,

>... I have never worked with SMT's. DO I install the SMT first, or do I
>need special irons, or what?

I install the SMT parts as first, because at this time is on the board more space than later for soldering the small/flat SMT's. You can solder the "normal" parts later without any trouble.

You can see at <http://www.geocities.com/k3em> "A Guide to prototyping with Surface Mount Technology (SMT)"

72/73 de Ingo, DK3RED Don't forget: the fun is the power!

dk3red@t-online.de <http://www.t-online.de/~dk3red>

DL-QRP-AG #824 <http://www.dl-qrp-ag.de>

Date: Mon, 12 Aug 2002 10:03:16 -0700
From: dave f epps <dave_epps@juno.com>
To: qrp-1@lehigh.edu
Subject: [132179] Another Calif Rock-Mite
Message-ID: <20020812.100323.-203103.0.dave_epps@juno.com>
MIME-Version: 1.0
Content-Type: text/plain
Content-Transfer-Encoding: 7bit

First contact WB6RBJ Fred in Carlsbad, Ca. Dave B. did it again. This one scurries about during the daytime in Morro Bay, Ca (central coast). I installed the 612 first on Chuck's advice and then went down the parts list. No problems whatsoever.
You can't go wrong with this one.
 dave ab5pc morro bay, ca

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<http://dl.www.juno.com/get/web/>.

Date: Mon, 12 Aug 2002 16:57:59 +0000
From: "Tom Dufresne" <tdufres@hotmail.com>
To: qrp-1@lehigh.edu
Subject: [132180] Thanks RE:Rock Mite and SMT components
Message-ID: <F396s5LrplMtMg9c6dUy0001fcfd@hotmail.com>
Mime-Version: 1.0
Content-Type: text/plain; format=flowed

To all who sent recommendations on mounting the SMT chip... Many thanks! I hope I can tackle it tonite. Now, if only I can get that nice >>>blue case<<< before I'm finished.....:)
Best wishes
Tom
KC0GXX

Send and receive Hotmail on your mobile device: <http://mobile.msn.com>

Date: Mon, 12 Aug 2002 10:31:07 -0700
From: Marv Fagenson <k6hcj@juno.com>
To: qrp-1@lehigh.edu
Subject: [132181] Ten Tec 208 CW filter NOT the 208A pinouts
Message-ID: <20020812.103109.-175811.0.k6hcj@juno.com>
MIME-Version: 1.0
Content-Type: text/plain
Content-Transfer-Encoding: 7bit

Gentlemen and Ladies:

I need the cable plug pinouts from the Ten Tec 208 CW Filter and how it connects to the PC board on the other end. This is the accessory for the Argo 509. Many thanks in advance.

I will be glad to pay mail/fax costs.

72

Marv Fagenson
k6hcj@Juno.com

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Date: Mon, 12 Aug 2002 12:57:56 -0400
From: kwike@gdls.com
To: ae5x@qsl.net
Cc: owner-qrp-1@lehigh.edu,
"Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>
Subject: [132182] Re: AA1MY & AB8DF - QRP from the Great Outdoors
Message-ID: <0F0C8C4FBA.13565904-0N85256C13.005CCD8F@gdls.com>
MIME-Version: 1.0
Content-type: text/plain; charset=us-ascii

Hey not bad for a J38 key duct taped to the second row seat fold down tray of a 2001 Astro Van and swiping at mosquitoes and drinking coffee while sitting in the third row seat.

Ed AB8DF

Date: Mon, 12 Aug 2002 10:37:02 -0700
From: "Jim Pruitt" <wa7duy@charter.net>
To: <qrp-l@lehigh.edu>
Cc: <dk3red@gmx.net>
Subject: [132183] Re: Rock Mite and SMT components
Message-ID: <011b01c24226\$df3cf620\$6401a8c0@knnwck.wa.charter.com>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="Windows-1252"
Content-Transfer-Encoding: 7bit

Hello Ingo. You left out the v from the web site url for vk3em. It is definitely a good article.

The correct url is:
<http://www.geocities.com/vk3em>

<http://www.geocities.com/vk3em/index.html>

The smt article is at:
<http://www.geocities.com/vk3em/smtguide/websmt.html>

----- Original Message -----

From: "Ingo Meyer DK3RED" <dk3red@gmx.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Sent: Monday, August 12, 2002 9:42 AM
Subject: Re: Rock Mite and SMT components

> Hello Tom,
>
> >... I have never worked with SMT's. DO I install the SMT first, or do I
> >need special irons, or what?
>
> I install the SMT parts as first, because at this time is on the board
more
> space than later for soldering the small/flat SMT's. You can solder the
> "normal" parts later without any trouble.
>
> You can see at <http://www.geocities.com/k3em> "A Guide to prototyping with
> Surface Mount Technology (SMT)"
>
> 72/73 de Ingo, DK3RED Don't forget: the fun is the power!
>

> dk3red@t-online.de http://www.t-online.de/~dk3red
> DL-QRP-AG #824 http://www.dl-qrp-ag.de
>

Date: Mon, 12 Aug 2002 13:37:58 -0700
From: "Dave Benson" <nn1g@earthlink.net>
To: <mark@buttery.org>, <qrp-l@lehigh.edu>
Subject: [132184] Re: Rock Mite and SMT components
Message-ID: <002501c24240\$400e14c0\$7c1a3841@pavilion>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Mark and gang-

-----Original Message-----

From: Mark J. Dulcey <mark@buttery.org>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Date: Monday, August 12, 2002 9:44 AM
Subject: Re: Rock Mite and SMT components

....

>>Yes, you should install the surface-mount part (an SA612 mixer) first.
It will be really hard to install it if you have installed other parts
already.

Aside from that, follow the usual rule of installing short components
before tall ones. I did the small number of horizontally-mounted parts
first, then the small capacitors, then the other ICs, then the
standing-up resistors and diodes, and the tall parts (crystals and
electrolytic caps) last. The Rock-Mite instructions don't say anything
at all about order of placing the components; I guess Dave feels that
hams can figure it out for themselves.<<

Thanks for the contribution, and absolutely right on both counts! The SMT
part should be installed first, and then the order of component installation
is non-critical.

>>You don't need a special soldering iron for the SA612; if you use a
quick hand, any iron suitable for modern ham construction won't fry the
part. But a small tip helps a lot; if your iron has interchangeable
tips, find the one with the smallest point and use that. ...<<

I don't worry about bridging across adjacent pins while soldering down the SMT. That's what 'solder-wick' is for, and in fact, the same technique works even for the tiny 25-mil pitch on SSOP ICs.

73- Dave Benson, K1SWL

Date: Mon, 12 Aug 2002 13:22:43 -0500
From: "George, W5YR" <w5yr@att.net>
To: kr1st@amsat.org
Cc: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [132185] Re: PSK31 software with high res waterfall
Message-ID: <3D57FCF3.897C6AF1@att.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

I use MixW and I believe it is what you are looking for, Alex. It works much as DigiPan and contains a good logger. The author of DigiPan and the author of MixW work together and there is a lot of similarity between the two programs.

One source is

<http://www.nvbb.net/~jaffeejim/downloads.htm>

The download is free for either two or four weeks and then you need to register it for \$50. I think that after you use it for a few days, you will have no trouble with the registration!

MixW is the very best multi-digital-mode program that I have used in nearly four years of PSK31 operation. BTW, I operate the waterfall at X16 normal rate which shows remarkable detail of signals in the waterfall. You can see the dits and dahs in a CW signal!

73/72/oo, George W5YR - the Yellow Rose of Texas
Fairview, TX 30 mi NE of Dallas in Collin county EM13qe
Amateur Radio W5YR, in the 56th year and it just keeps getting better!

QRP-L 1373 NETXQRP 6 SOC 262 COG 8 FPQRP 404 TEN-X 11771 I-LINK 11735
Icom IC-756PRO #02121 Kachina 505 DSP #91900556 Icom IC-765 #02437

Alex wrote:

>
> Hi there,
>
> Over the past week I have been trying out different PSK31 software
> packages to find one that works with a logging program and has the same
> waterfall resolution as Digipan. Anyone know of such a beast?
>
> Right now my favorite combination is Digipan with YPlog but they don't
> talk to each other, unfortunately. All other PSK software I have tried
> has a rather poor resolution in the waterfall screen which makes
> recognizing signals rather difficult, especially QRP signals.
>
> 73,
> --Alex (KR1ST)

Date: Mon, 12 Aug 2002 19:45:02 +0100
From: "Hubert Smits" <hubert.smits@btinternet.com>
To: "'Low Power Amateur Radio Discussion'" <qrp-l@lehigh.edu>
Subject: [132186] QRM
Message-ID: <071e01c24230\$60981c00\$0100000a@mynote>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="US-ASCII"
Content-Transfer-Encoding: 7bit

All,

I've got my RockMite working, but when receiving I hear a strong AM station through the vast amount of CW. I remember having such a problem with the all SMD kit I build last year. Is this a problem with me building the kit, or an anoying 'feature'.

72 de Hubert

| -----Original Message-----
| From: owner-qrp-l@Lehigh.EDU [mailto:owner-qrp-l@Lehigh.EDU]
| On Behalf Of ss lyon
| Sent: 12 August 2002 06:03
| To: Low Power Amateur Radio Discussion
| Subject: Re: Rock Mite AA1MY
|

Bruce, I DID hear you but couldn't believe it and was trying to hear N0RC thru the noise!!! Sure couldn't claim a QSO, so we'll keep trying. I'll put the 88' EDZ back up tomorrow and keep operating directly under as long as wx permits. Using a 7 AH gel cell for past three nites and it still shows full charge. Best DX tonite was AK7Y... in AZ, not AK :(Did hear NB6M in QSO, but he faded before the end. Missed a LOT of callers due to nasty QRN. More later

73

AA1MY

Seabury & Sharon Lyon
99 Sparrowhawk Mtn Rd
Bethel ME, 04217 U.S.A.
207-836-2576

Virus Protection by Norton and ZoneAlarm

----- Original Message -----

From: "Bruce Rattray" <rattray@gpfn.sk.ca>

To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>

Sent: Monday, August 12, 2002 12:32 AM

Subject: AA1MY

>

> Just heard Seab calling CQ, on 7.039 at 0441Z and he might have heard

> me at 0442Z, he was RST 119 here....hope he gets stronger....

>

> ..72/73 - Bruce (VE5RC+VE5QRP) QRP-C#1 QRP-L#886

ARCI#9683 Zombie#272

> A-1 Operator Club - 10/10# 944 - QRP Borg#1 -

Whiner#10 -

> - VE5QRP SOC#11 - VE5RC SOC#12 - oo#148 -

K2#2032 - COG#15 -

> "QRP! How sweet it is!" "I am da man wit

"DAH" paddle!"

>

>

Date: Mon, 12 Aug 2002 11:50:00 -0700

From: Steve Smith <sigcom@juno.com>

To: qrp-l@lehigh.edu

Subject: [132187] PSK31 software & CW (was: PSK31 software with high res waterfall)

Message-ID: <20020812.115000.-16618825.3.sigcom@juno.com>

MIME-Version: 1.0

Content-Type: text/plain; charset=us-ascii

Content-Transfer-Encoding: 7bit

I have only watched a PSK demo a couple of times but have never played with it myself. Do any of the PSK software packages out there decode C.W. signals? Seems to me that a spectral display (like the one in Digipan) tied to either a ASCII display of the decoded signal or simply an aural tone would be a great QRM/QRN filter. But maybe I'm all wet too, HA!

73.....Steve 'The Scrounger' Smith
WB6TNL Oxnard, CA USA
"Snort Rosin"

On Mon, 12 Aug 2002 13:22:43 -0500 "George, W5YR" <w5yr@att.net> writes:

> BTW, I operate the waterfall at X16
> normal
> rate which shows remarkable detail of signals in the waterfall. You
> can see
> the dits and dahs in a CW signal!
>

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<http://dl.www.juno.com/get/web/>.

Date: Mon, 12 Aug 2002 00:18:59 -0700

From: "Doug Hendricks" <ki6ds@dph.dpol.net>

To: <qrp-l@lehigh.edu>

Subject: [132188] First VX0 Kits Mailed

Message-ID: <001f01c241d0\$89bf16c0\$4a0b0d0a@dph.dpol.net>

MIME-Version: 1.0

Content-Type: text/plain;
charset="iso-8859-1"

Content-Transfer-Encoding: 7bit

I sent out 3 VX0 kits today to:

Bob Tellefsen
Mike Shettlar
Richard Flowers

I have plenty ready to go and remember that you do not have to be present to enter. Bob Tellefsen has agreed to accept non attendees entries and take them to the event. Thank for stepping forward Bob. 72, Doug

Oh, in case you missed the original announcement, here it is again.

Friday night of QRPacificon, Oct. 19th, we are going to have the ROCK MITE NITE, which will involve teams of 4 QRPers building and operating Rockmites. But we also want to have an event that everyone can participate in, even if they can't come, so we have decided, at the suggestion of Dan Tayloe, to have VXO Building Contest. This contest will be held on Saturday night, October 20th, at the NorCal QRP Hospitality room at the Sheraton Hotel in Concord, CA. The purpose is to see who can get the greatest frequency swing out of a VXO for 40 meters and 20 Meters. Here are the rules:

1. The entry must be a VXO, NOT a VF0, and it will be tested for Frequency Swing and Stability.
2. The entry must use the following parts: 1SV149 Varicap diode, 78L08 voltage regulator, 2.1 mm power jack and 1 or more 7.040 NorCal Crystals for 40 meters and 1 or more 14.060 crystals for 20 meters.
3. Each VXO will have a 2.1 mm power jack for power.
4. We will test each VXO by plugging it in to a 12V power supply provided by us.
5. Each VXO must use a SIP socket for 1 crystal. (If you parallel more than 1 crystal, you only have to socket 1 crystal.) All entries will use the same Official NorCal Great VXO Contest Crystal (that is stored in a Mayonaise jar in my Radio Room under lock and key until the contest) during testing.
6. Only NorCal 7.040 crystals may be used in the 40 meter VXO. (No Mixing Schemes)
7. Only NorCal 14.060 crystals may be used in the 20 meter VXO. (No Mixing Schemes)
8. There is a parts kit available from NorCal. It contains the following:

- 1 x 7.040 Crystal
- 1 x 14.060 Crystal
- 2 x 1SV149 Diode
- 2 x 78L08 Voltage Regulators
- 2 x 2.1 mm power jack
- 2 x 3 pin SIP crystal sockets

To order the kit send \$10 to Doug Hendricks. Make check or money order out to Doug Hendricks, not Norcal. Also, send \$3 for each additional crystal

ordered. Be sure to specify frequency.

Send your orders to:

Doug Hendricks

862 Frank Ave.

Dos Palos, CA 93620

9. All entries must have a schematic accompanying it.

10. We will have an overall division, (add the 2 swings together of the 20 and 40 meter VX0), and a 20 meter and a 40 meter division.

11. If you wish to enter the contest and will not be attending, it is up to you to make arrangements to have your circuit entered. Ask on the list, I am sure that plenty of guys will step forward and offer to receive your entry and make sure it gets to the contest and back to you.

12. No variable caps allowed to tune frequency.

Date: Mon, 12 Aug 2002 13:40:50 -0600 (MDT)

From: "Karl F. Larsen" <k5di@zianet.com>

To: Glenn Maclean <wa7spy@attbi.com>

Cc: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>

Subject: [132189] Re: Crystals

Message-ID: <Pine.LNX.4.44.0208121339200.3095-100000@Daisy.dog>

MIME-Version: 1.0

Content-Type: TEXT/PLAIN; charset=US-ASCII

This is where we got all our crystals for Motorola Radios we converted to voice FM repeaters. They could ship fast and were easy to deal with.

On Mon, 12 Aug 2002, Glenn Maclean wrote:

> I found this to be a very interesting web site. There is a web tour of how
> crystals are manufactured. The web tour is fascinating and informative. This
> company seems to have every crystal you ever wanted.

>

> <http://www.icmfg.com/>

>

> Glenn Maclean WA7SPY

>

>

--

Yours Truly,

- Karl F. Larsen, (505) 524-3303 -

Date: Mon, 12 Aug 2002 15:09:28 -0500
From: don@azark.com
To: Low Power Amateur Radio Discussion <qrp-1@lehigh.edu>
Subject: [132190] Re: QRP - GPS redux
Message-ID: <3D57CFA8.4859.17C1521@localhost>
MIME-version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7BIT
Content-description: Mail message body

On 12 Aug 2002 at 7:36, Chad Nelson wrote:

> National Geographic sells a really nice mapping program "a little pricey
> for me" and a special paper that will leave you with a water safe
> map, I collect maps but cannot bring myself to drag them into the

For any who make their own maps from a laser printer, I have a quantity of paper which I believe is called "Rite in the Rain" or something similar. It provides a waterproof base for anything you wish to print on it. (Inkjet type of ink will wash off.) If anyone is interested, email me direct (off-list) and will see about mailing a sample to you.

The only catch to it: this paper is left over from a misprinted printing job and has light blue and light red grid lines printed on both sides which doesn't interfere with anything you might print using the laser printer. (The pressman made the mistake of scaling the grid lines slightly where it should have been 1:1 from the original, and since the line spacing was critical, customer rejected the job ;-). I have had it around for some time since couldn't bear to throw it out. 8-1/2 x 11 sheets.

72/73,
Don AE5K

Date: Mon, 12 Aug 2002 14:39:49 -0600 (MDT)
From: "Karl F. Larsen" <k5di@zianet.com>
To: qrp-1@lehigh.edu
Subject: [132191] OT VE license Information

Message-ID: <Pine.LNX.4.44.0208121427240.3184-1000000@Daisy.dog>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

I was taken to task because I told a person that their CSCE for Element 1 (Morse Code) is good for only one year, 365 days.

The CSCE has printed on it words that say a CSCE with Element 1 will last forever giving a Tech HF bands that include part of 10 meters SSB and some old Novice CW bands. This is correct and anyone with this combination should protect that CSCE paper with care! It is not certain It can be replaced after about 3 years.

So I e-mailed Bart at the ARRL VEC and he said we are both right. The CSCE will work with the Tech forever, but that CSCE is good for an upgrade for only 365 days.

Do not accept a dog eared CSCE with Element 1 marked on it for credit towards a General license if it's over 365 days old.

--
Yours Truly,

- Karl F. Larsen, (505) 524-3303 -

Date: Mon, 12 Aug 2002 16:41:01 -0400
From: "Steve Lawrence" <Steve.Lawrence@itwfeg.com>
To: sslyon@megalink.net
Cc: qrp-l@lehigh.edu
Subject: [132192] Re: QRP - GPS redux
Message-ID: <0F7E0D74EC.6199FBFF-ON85256C13.006C3996-85256C13.00719DB2@itwfeg.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

I own both a Garmin etrex Legend and a Garmin Emap models. Both accept downloadable maps. In my experience, for hiking and "field work" an external antenna is not necessary. True, I've seen loss of track in deep forest, but it's easy to add an external antenna down the road if you're not pleased with the internal antenna results (and the selected system supports an external antenna). I've talked to one hiker who mounted an external antenna on top of a small pole thus elevating the antenna a foot or two above his back pack frame. But, I simply clip my Legend on the shoulder of my pack strap so the unit is positioned at shoulder level, antenna looking up.

I've looked over several receivers from other manufacturers. From my perspective, Garmin appears to have the most straight forward, easy to use function (i.e. firmware in the GPS unit). (One however might argue that navigation skills are not intuitive. And that practice with topo maps, compass, GPS, grids, UTM, Latitude/Longitude, and declination is needed before going afield!) Look for a 12 channel parallel receiver. They seem to grab and track the distant satellites better than the older single channel units.

The Legend is small, fitting nicely in the hand. It's sealed against water ingress and appears more rugged. The high resolution display is at times a bother to read for these 47 year old eyes. The emap has a larger display, is not sealed, and seems more oriented to car travel rather than hiking, but I've used it both places.

Paying more doesn't get you more accuracy. The more accurate systems are WAAS enabled, although this additional accuracy appears not to be yet fully implemented across the GPS system.

If you haven't visited this site, please check:

<http://joe.mehaffey.com/>

where you'll find a wealth of GPS related information -- and maintained by a fellow ham!

Just some thoughts...

Steve
aa8af

"ss lyon" <sslyon@megalink.net>
Sent by: owner-qrp-l@Lehigh.EDU
08/10/2002 08:55 AM
Please respond to sslyon

To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
cc:
Subject: QRP - GPS redux

OK, I'm nearly set to take the plunge. Figure I'd better take time to learn GPS before heading out on my QRP adventures. Unlike certain solder melters we

know,
I'll be looking for optimum antenna locations regardless of proximity to established trails. The mapping functions, esp. Topo, will be important here where heavy tree canopy makes it nearly impossible to spot ones location on the terrain -unless you climb big trees.
I've pretty much narrowed the tortuous search down to Garmin units. Two questions:
a.) Has anyone who owns basic units, or the "Legend", regretted not going for the more expensive "Vista" or "'76S" ?
b.) Does the external antenna option make a significant difference under dense canopy?
These units seem to go up in \$100 jumps, so the decision isn't trivial.
Thanks
in advance.

72/73

"Seab" Lyon - AA1MY
Bethel, ME 04217 USA
N 44.3890 - W 70.8450
FN44nj aa1my@arrl.net

Date: Mon, 12 Aug 2002 16:43:57 -0400
From: David Hinerman <WD8CIV@worldnet.att.net>
To: qrp-l@lehigh.edu
Subject: [132193] Re: QRP - GPS redux
Message-ID: <5.1.0.14.1.20020812164116.00a75500@ipostoffice.worldnet.att.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

At 03:09 PM 8/12/2002 -0500, you wrote:

>On 12 Aug 2002 at 7:36, Chad Nelson wrote:

>

> > National Geographic sells a really nice maping program "a little pricey
> > for me" and a speicial paper that will leave you with a water safe
> > map, I collect maps but cannot bring myself to drag them into the
>

>For any who make their own maps from a laser printer, I have a
>quantity of paper which I believe is called "Rite in the Rain" or

>something similar. It provides a waterproof base for anything you
>wish to print on it. (Inkjet type of ink will wash off.) If anyone
>is interested, email me direct (off-list) and will see about mailing
>a sample to you.

>

>The only catch to it: this paper is left over from a misprinted
>printing job and has light blue and light red grid lines printed on
>both sides which doesn't interfere with anything you might print
>using the laser printer. (The pressman made the mistake of scaling
>the grid lines slightly where it should have been 1:1 from the
>original, and since the line spacing was critical, customer rejected
>the job ;-). I have had it around for some time since couldn't bear
>to throw it out. 8-1/2 x 11 sheets.

Don,

Is that from a surveyor's notebook? My Scoutmaster was an architect and did a lot of field sketches in a waterproof notebook that was meant for surveyors. His weapon of preference was a #2 pencil. I guess ballpoint pens would write on the stuff unless you hit a damp spot.

Might be a good material for field logs, FWIW. Certainly more weather-tolerant than a Palm. (Grin)

Dave

"You can fool some of the people all of the time. That's enough to make a living." - Lance Burton

Dave Hinerman
WD8CIV@worldnet.att.net

Date: Mon, 12 Aug 2002 17:05:38 -0400
From: Steven Weber <kd1jv@moose.ncia.net>
To: hubert.smits@btinternet.com
Cc: qrp-l@lehigh.edu
Subject: [132194] Re: QRM
Message-ID: <3.0.6.32.20020812170538.007d33a0@mailhost.ncia.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

>with the all SMD kit I build last year. Is this a problem with me
>building the kit, or an annoying 'feature'.

>

Hubert,

The AM QRM is an annoying feature, common to many DC receivers :-)

The xtal in the front end goes a long way to reduce this problem, but it can't totally eliminate it in some cases. We have some trouble with Radio Canada here in Northern New England.

Operating the rig with a battery instead of an AC mains supply usually helps a lot. Adding an audio filter also helps by cutting down the BW and peaking up the signals you want to hear. You can also try going to a "double diode" (two diodes in series) instead of the single pair of diodes in the T/R switch. Finally, attenuating the input to the SA612 can help a lot too. Try a 1 K resistor across D1 and D2.

72,

Steve, KD1JV

"Melt Solder"

White Mountains of New Hampshire

<http://www.qsl.net/kd1jv/>

Date: Mon, 12 Aug 2002 16:54:32 -0400

From: "Steve Lawrence" <Steve.Lawrence@itwfeg.com>

To: WD8CIV@worldnet.att.net

Cc: qrp-1@lehigh.edu

Subject: [132195] Re: QRP - GPS redux

Message-ID: <0F29F45E85.156E40C3-0N85256C13.007291AF-85256C13.0072DA94@itwfeg.com>

MIME-Version: 1.0

Content-Type: text/plain; charset="us-ascii"

David,

Yes, Garmin makes the etrex Summit and etrex Vista that has a built in electronic compass. I don't own one - but do own a etrex Legend.

Steve

David Hinerman <WD8CIV@worldnet.att.net>

Sent by: owner-qrp-1@Lehigh.EDU

08/11/2002 09:40 AM

Please respond to WD8CIV

To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
cc:
Subject: Re: QRP - GPS redux

At 01:04 PM 8/11/2002 +0100, you wrote:

>It's a great feeling to know that as long as you have the right maps
loaded,
>you can't easily get lost with a GPS like this.

Tony,

I doubt there's anyone on this list who needs a warning (after all, it
takes a person of intelligence and wisdom to figure out how to subscribe),

but without basic navigation skills a GPS receiver isn't much use.

There was a story in the news a couple of years ago about a group of
people
from the East Coast (Philadelphia area I believe) who were going hiking in

eastern Pennsylvania. They had a GPS receiver that one of them had just
purchased, but no compass! And none were able to discern direction from
any

of the usual Boy Scout tricks - sun position, moss growing on trees, etc.
They spent a cold night along the trail after they got lost. Even though
they knew their exact latitude and longitude, it didn't tell them which
way

to go to get home. Eventually they were found by rangers when someone
reported them overdue.

GPS is a great tool, if you know how to use it.

Dave

P.S. Does anyone make a GPS receiver with a compass built in? D.

"You can fool some of the people all of the time. That's enough to make a
living." - Lance Burton

Dave Hinerman
WD8CIV@att.net

Date: Mon, 12 Aug 2002 17:07:02 -0400
From: kwiki@gdls.com
To: qrp-l@lehigh.edu
Subject: [132196] LED Lights for QRP field ops
Message-ID: <0FC663BC2E.95AFDE3B-ON85256C13.00728E88@gdls.com>
MIME-Version: 1.0
Content-type: text/plain; charset=us-ascii

I had a great time this weekend camping and qrping. I used the back of the XLYs Astro van as a op position. It worked out well. There was one minor glitch. I did not want to use the vans interior lights when operating at night. They can kill the vehicle battery pretty quick. I used a candle lantern which had drawbacks. It was hot and it was too warm in the van as it was. I could not mount it safely were it could provide enough light at the op position and not burn up the vans headliner. There has been over the years discussions on LED lights for QRPers and I never paid much attention. I searched the archives and found several references but not what I wanted. Does anyone have a lighting approach using LEDs powered by the 12 VDC gel cells I use to power my rigs?

Ed AB8DF

Date: Mon, 12 Aug 2002 17:10:37 -0400
From: "Vincent A. Santis" <vsantis@earthlink.net>
To: "QRP List (E-mail)" <qrp-l@lehigh.edu>
Cc: "Tentec (E-mail)" <tentec@contesting.com>
Subject: [132197] CDR sold
Message-ID: <01C24223.40581C40.vsantis@earthlink.net>
MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: 7bit

The RAC CDR is sold.

Vince Santis,N1VS
Winsted, CT
NEQRP # 598
PRP-L # 2372
FISTS# 8053
CC # 1161

K1 #841

Date: Mon, 12 Aug 2002 16:14:04 -0500
From: "George, W5YR" <w5yr@att.net>
To: sigcom@juno.com
Cc: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [132198] Re: PSK31 software & CW (was: PSK31 software with high res waterfall)
Message-ID: <3D58251C.BD615207@att.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Yes, MixW does as good a job decoding as any program I have used. Not that it is perfect by any means, but on W1AW for example, it is essentially error-free.

73/72/oo, George W5YR - the Yellow Rose of Texas
Fairview, TX 30 mi NE of Dallas in Collin county EM13qe
Amateur Radio W5YR, in the 56th year and it just keeps getting better!
QRP-L 1373 NETXQRP 6 SOC 262 COG 8 FPQRP 404 TEN-X 11771 I-LINK 11735
Icom IC-756PRO #02121 Kachina 505 DSP #91900556 Icom IC-765 #02437

Steve Smith wrote:

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> with it myself. Do any of the PSK software packages out there decode
> C.W. signals? Seems to me that a spectral display (like the one in
> Digipan) tied to either a ASCII display of the decoded signal or simply
> an aural tone would be a great QRM/QRN filter. But maybe I'm all wet
> too, HA!

Date: Mon, 12 Aug 2002 17:13:37 -0400
From: "Mike Yetsko" <myetsko@insydesw.com>
To: <k5di@zianet.com>,
"Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [132199] Re: OT VE license Information
Message-ID: <007f01c24245\$21b3bfc0\$0300a8c0@charter.net>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

To quote the ARRL VE Newsletter:

"The FCC also declined to extend permanent credit to Element 1 CSCEs held by Technicians to obtain HF privileges. Such CSCEs are good for 365 days for upgrading purposes but for Technicians confer only additional operating privileges beyond that time."

This was in a response to a SPECIFIC request to the FCC about this issue. Full details are available in the whole newsletter at:

<http://www.arrl.org/arrlvec/vex100a.pdf>

It's in the front page, left column, about half way down...

Mike

Date: Mon, 12 Aug 2002 17:37:32 -0400 (EDT)
From: Chris Cartwright <ccart@phideaux.com>
To: QRPL List <qrp-l@lehigh.edu>
Subject: [132200] Re: LED Lights for QRP field ops
Message-ID: <Pine.LNX.4.33.0208121729090.20711-100000@dns.phideaux.com.>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Mon, 12 Aug 2002 kwike@gdls.com wrote:

> Does anyone have a lighting approach using LEDs powered by
> the 12 VDC gel cells I use to power my rigs?

You might want to consider just getting a Mini Maglite and a small piece of tinfoil. I have one on me all the time, and during fybo I used it in "candle mode". The lens comes off to be used as a standup base, but the 360 degree illumination needs to be shielded off with a tin foil reflector. Worked great, is useful for other things, and uses the ever present AA batteries. I know I went at least 2 or 3 hours with a set of batteries that had already seen a fair amount of use. The little Maglites are about \$10 and available almost everywhere.

-- Chris Cartwright, Unix Administrator | ccart@phideaux.com --

-- N3XRV ARRL-VE Norcal Zombie #163 | Oxford, PA 19363 FM29as --
-- MDmW #5 NJ-QRP #105 QRP-L #655 NORCAL #1891 FISTS #5028 QRP-ARCI #9271 --

Date: Mon, 12 Aug 2002 16:37:42 -0500
From: "J. W. (Dub) Thornton" <dub@oklahoma.net>
To: qrp-l@lehigh.edu
Cc: stammham@fast.net
Subject: [132201] Paddle covers for Mercury/Hensley:
Message-ID: <5.1.0.14.2.20020812163057.01c198f8@mail.oklahoma.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

Guys: Someone posted a note not too long back, about a guy getting set up to make covers for the Mercury/Hensley paddles. I just got one in for the Mercury, and am well pleased with it. It is made of clear plastic tubing, with clear plastic cover, engraved with your call (if you desire). It is sturdy, well made, and will do a fine job of protecting the paddles it is designed to fit.

The guy to contact is: Larry Stamm WB3EVL stammham@fast.net Price \$22.00 delivered.

No connection, but am a satisfied customer.

"73" Dub

-
J. W. (Dub) Thornton WA5YFY
Minco, OK.

Date: Mon, 12 Aug 2002 14:46:47 -0700
From: "John K7TY" <k7ty@arrl.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [132202] RE: LED Lights for QRP field ops
Message-ID: <LEELJDELBI LCKENAHGIOIEPFHHAA.k7ty@arrl.net>
MIME-Version: 1.0

Content-Type: text/plain;
charset="us-ascii"
Content-Transfer-Encoding: 7bit

If you have a Maglite, check out these replacement LED adapters specially designed for Maglites. The company owner is N7DKQ.

<http://www.inretech.com/>

-John K7TY

-----Original Message-----

From: owner-qrp-l@Lehigh.EDU [mailto:owner-qrp-l@Lehigh.EDU] On Behalf Of Chris Cartwright
Sent: Monday, August 12, 2002 2:38 PM
To: Low Power Amateur Radio Discussion
Subject: Re: LED Lights for QRP field ops

On Mon, 12 Aug 2002 kwike@gdls.com wrote:

> Does anyone have a lighting approach using LEDs powered by
> the 12 VDC gel cells I use to power my rigs?

You might want to consider just getting a Mini Maglite and a small piece of tinfoil. I have one on me all the time, and during fybo I used it in "candle mode". The lens comes off to be used as a standup base, but the 360 degree illumination needs to be shielded off with a tin foil reflector. Worked great, is useful for other things, and uses the ever present AA batteries. I know I went at least 2 or 3 hours with a set of batteries that had already seen a fair amount of use. The little Maglites are about \$10 and available almost everywhere.

-- Chris Cartwright, Unix Administrator | ccart@phideaux.com --
-- N3XRV ARRL-VE Norcal Zombie #163 | Oxford, PA 19363 FM29as --
-- MDmW #5 NJ-QRP #105 QRP-L #655 NORCAL #1891 FISTS #5028 QRP-ARCI #9271 --

Date: Mon, 12 Aug 2002 17:48:44 -0400
From: "Mike Yetsko" <myetsko@insydesw.com>
To: <ccart@phideaux.com>,
"Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [132203] Re: LED Lights for QRP field ops

Message-ID: <00a701c2424a\$0ac08f00\$0300a8c0@charter.net>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

> On Mon, 12 Aug 2002 kwike@gdls.com wrote:
>
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> > the 12 VDC gel cells I use to power my rigs?
>
> You might want to consider just getting a Mini Maglite and a small piece
> of tinfoil. I have one on me all the time, and during fybo I used it in
> "candle mode". The lens comes off to be used as a standup base, but
the
> 360 degree illumination needs to be shielded off with a tin foil
> reflector. Worked great, is useful for other things, and uses the ever
> present AA batteries. I know I went at least 2 or 3 hours with a set of
> batteries that had already seen a fair amount of use. The little
Maglites
> are about \$10 and available almost everywhere.
>
> -- Chris Cartwright, Unix Administrator |
ccart@phideaux.com -

You can 'spin out' the MagLights to a pretty good flood, even with the
reflector on.

One thing you might do is rig up something with goosenecks or a 'bar'
like track lighting with a minimag.

You know, they make adapters for the MiniMags to screw off the 'base'
cap and now you screw them onto the front of a rifle. or a pistol. They
even make the bases so that they wire a switch in circuit... I wonder if
it'd be worth it doing that with an external power supply....

But then, if you go through all that, why not just buy a few replacement
reflectors (a buck or two) from Mag Instruments and rig up a light bar
with the 12v versions of the bulbs (bi-pin) they use. Heck, if you're
doing it why not just take an old flashlight or two from the 3 for \$1.97
specials and rig up some 12v grain of wheat bulbs in them.

Mike

Date: Mon, 12 Aug 2002 17:54:54 -0400
From: "Ron Polityka" <wb3aal@fast.net>
To: ". QRP-L" <qrp-l@lehigh.edu>, ". NJ QRP-L" <njqrp@njqrp.org>
Subject: [132204] AT in PA Tuesday
Message-ID: <001901c2424a\$e4b86ca0\$213c5cd1@wb3aal>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hello,

Tomorrow between 18:00 & 19:00 UTC I will be on the AT in PA calling CQ. I will try 15 m first, 20 m, 30 m and then 40 m. It depends on the QSO on how long I will be out on the AT. I am going for a short hike and to do a little antenna testing. So if you hear me please give me a shout.

72

Ron de WB3AAL
www.n3epa.org/

Date: Mon, 12 Aug 2002 02:45:13 -0700
From: "Doug Hendricks" <ki6ds@dph.dpol.net>
To: <qrp-l@lehigh.edu>
Subject: [132205] Walmart LED Lights
Message-ID: <003701c241e4\$f7923ba0\$4a0b0d0a@dph.dpol.net>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

In the camping section of Walmart they have a LED flash light that runs off 4 AA batteries. It uses 2 super bright LED's (white) and some type of plastic tube about 3 inches long. It looks like a couple of fluorescent bulbs when lit. I thought thats what it was at first, but then discovered the LED's. Rex Harper showed me one at Lobstercon (you gotta go to these Qrp events to get the latest and greatest gadgets, grin). It will last for 100 hours with 4 AA batteries and both LEDs on. But guess what, you can shut one of the LEDs off, and you will get 200 hours of light!! Plenty of light to operate from, it doesn't get hot, and guess what? Price is right too. \$8.95!! Thanks to Rex Harper for finding this one. Oh yeah, you can set it flat, bend it 90 degrees to point the light, or hang it up. Neat little light. Check it out the next time you go to Mr. Walton's General Store. 72, Doug

Date: Mon, 12 Aug 2002 16:54:51 -0500
From: "Tim, N9PUZ" <n9puz@arrl.net>
To: <kwike@gdls.com>,
Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [132206] Re: LED Lights for QRP field ops
Message-ID: <200208122147.QAA16409@steel.eosinc.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: quoted-printable

On Mon, 12 Aug 2002 17:07:02 -0400, kwike@gdls.com wrote:
>burn up the vans headliner. =A0There has been over the years
>discussions on LED lights for QRPers and I never paid much
>attention. =A0I searched the archives and found several references=
but
>not what I wanted. =A0Does anyone have a lighting approach using=
LEDs
>powered by the 12 VDC gel cells I use to power my rigs?

Ed,

These may be what you're talking about or you could build=
something similar using white LEDs on your own...

<http://electronicsusa.com/products/ledlights.html>

I have not used these commercially made lights but have made the=
"roll your own" style. Choose a suitable resistor value to keep=
the current within the LED's specifications @ 12 Volts. You=
might want to add an adjustable resistor so you can dim them as=
well.

Tim N9PUZ

Date: Mon, 12 Aug 2002 16:01:01 -0600
From: "Jason Nochlin" <jman0iin@attbi.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [132207] Re: LED Lights for QRP field ops
Message-ID: <000b01c2424b\$bf7fcf40\$6401a8c0@attbi.com>
MIME-Version: 1.0
Content-Type: text/plain;

charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

You could also use a headlamp. They are very bright and can easily be adjusted up or down for what you are doing. You can get one for about \$15 at any camping store.

They're is also a headlamp band for a MiniMaglite. The band goes around your head and the Maglite slips into a pocket on it.

73,
Jason K0IIN

Date: Mon, 12 Aug 2002 18:14:18 -0400
From: Rick McKee <kc8aon@juno.com>
To: qrp-l@lehigh.edu
Subject: [132208] Re: LED Lights for QRP field ops
Message-ID: <20020812.181640.9038.0.kc8aon@juno.com>

Does anyone have a lighting approach using LEDs powered by the 12 VDC gel cells I use to power my rigs?

I built my own LED table lamp by putting 40 green LEDs on a piece of perf board in 2 banks of 20 with a switch that allows me to run either one or both banks. I mounted the circuit board via double sided mounting tape in the bottom of an Altoids tin to provide shading and protection. I also built a stand for it out of 3/32" brazing rod soldered to the box and to a piece of copperclad board for a base. The flat copper clad board base allows me to slip it under my writing pad and the light shines straight down on the pad with plenty of light for logging purposes. I picked up the LEDs at a local hamfest at the rate of 5 bucks for a bag of 250 ! But Radio Shack (no, I don't work for them) has some super bright 10 MM LEDs and 2 or 3 of these would make plenty of light ! Just use your own imagination to build your own system. I thought of building one out of the little 6 volt camp lanterns that you can get at Wally World for a few bucks, that way it would have it's own battery !

Rick McKee, KC8AON
Willow Wood, Ohio
QRP - Do more with less !

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Date: Mon, 12 Aug 2002 14:23:19 -0800
From: Jim Larsen - AL7FS <AL7FS@arrl.net>
To: Low Power Amateur Radio Discussion <qrp-1@lehigh.edu>
Subject: [132209] Re: LED Lights for QRP field ops - converting a MagLite
Message-ID: <3D583557.B12C882C@ARRL.NET>
MIME-Version: 1.0
Content-Type: text/plain; charset=iso-8859-1
Content-Transfer-Encoding: quoted-printable

Chris Cartwright wrote:

>=20

> You might want to consider just getting a Mini Maglite

Consider Home Power Magazine current issue:
http://www.homepower.com/magazine/downloads_current_issue.cfm

Entire HP Issue #90 - August / September '02:
In Acrobat format. (8.9=B1 megabytes)=20
OR=20
HP Issue #90 broken into segments:
In Acrobat format.
Pages beginning to 49 (2.9=B1 megabytes)

The maglite article you want is on page 40. It converts a maglite to LED
for long life.

40 LED Flashlight Conversion

Turn your Mini Maglite into a mighty flashlight. This homebrew makes it
mighty stout, bright, and radically extends battery life.

It uses the basic Maglite, a high intensity RS LED, three N-type batterie=
s
at 1.5 v each, an piece of spring, an old screw and a piece of cardboard
wrapped around the slightly smaller battiers. Takes a tiny touch with a
drill bit and voila!

Yes, I know it is a 2.9MB download but the article is interesting. :-)

I have the Walmart LED flashlite and it is super! I use it at my bedside
both at home and on the road. It doesn't wake up my wife like the big la=
mp
does.

73, Jim

--=20

Jim Larsen, AL7FS, Anchorage, Alaska

(BP51cc) - 61.101 North, 149.824 West

ex-WA0LPK AK-QRP#003 SOC#003 10-X-#12094 =20

mailto:al7fs@arrl.net - <http://www.qsl.net/al7fs/>

Date: Mon, 12 Aug 2002 18:27:41 -0400 (EDT)

From: <wa4chq@qsl.net>

To: <qrp-l@lehigh.edu>

Subject: [132210] motorboating

Message-ID: <Pine.LNX.4.33.0208121821330.1221-100000@localhost.localdomain>

MIME-Version: 1.0

Content-Type: TEXT/PLAIN; charset=US-ASCII

Greetings-

I have a homebrewed NW-80/20 (mine is 20m) and it has a problem or two.
The first noticable one is when I first turn it on. I don't get audio for
about 2 seconds. After it comes on, if I increase the volume, it
starts to sputter, and increases as I crank up the volume. I am using a
'386 for the audio amp. Any hints for cures?

Thanks-

Neil wa4chq

--

<http://www.qsl.net/wa4chq>

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Date: Mon, 12 Aug 2002 18:40:30 -0400

From: John R Kirby <n3aaz-qrp@juno.com>

To: qrp-l@lehigh.edu

Subject: [132211] OT Spot 5X5 CW on 7519

Message-ID: <20020812.184142.-364443.0.n3aaz-qrp@juno.com>

MIME-Version: 1.0

Content-Type: text/plain

Content-Transfer-Encoding: 7bit

Some good CW practice on 7519 now (2215Z).

Sounds like the ole days . . .

Raspy unstable xmtr but good fist (keyer) at apx 15-20 wpm.

to include indexing (probably one time pads)

but GOOD CW practice.

John
N3AAZ
FM 19 xa

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Date: Mon, 12 Aug 2002 18:23:49 -0400

From: Rick McKee <kc8aon@juno.com>

To: qrp-1@lehigh.edu

Subject: [132212] Re: LED Lights for QRP field ops

Message-ID: <20020812.183055.9038.1.kc8aon@juno.com>

Yeah they put out a lot of light, but think of all the mosquitoes you'll be attracting ! With West Nile virus on the increase, don't forget to use a good insect repellent containing deet.

Ya'll stay healthy now - ya-hear?

KC8AON

On Mon, 12 Aug 2002 16:01:01 -0600 "Jason Nochlin" <jman0iin@attbi.com> writes:

>You could also use a headlamp. They are very bright and can easily be
>adjusted up or down for what you are doing. You can get one for about
>\$15 at

>any camping store.

>They're is also a headlamp band for a MiniMaglite. The band goes

>around your

>head and the Maglite slips into a pocket on it.

>73,

>Jason K0IIN

>

>

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Date: Mon, 12 Aug 2002 18:50:00 -0400

From: Ed Tanton <n4xy@earthlink.net>

To: kc8aon@juno.com,

"Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>

Subject: [132213] Re: LED Lights for QRP field ops

Message-ID: <5.1.1.6.2.20020812184747.02bfbf08@pop.earthlink.net>

Mime-Version: 1.0

Content-Type: text/plain; charset="us-ascii"; format=flowed

I wonder if a lantern made from either YEL or ORG LEDs might be better so as to not attract bugs?

SOME bothersome bugs-not certain whether it's mosquitoes or not-are actually attracted by the CO2 we exhale. Not much you can do about that-except DEET.

73 Ed Tanton N4XY <n4xy@earthlink.net>

Ed Tanton N4XY

189 Pioneer Trail

Marietta, GA 30068-3466

website: <http://www.n4xy.com>

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End of QRP-L Digest 2645

